PR3- DIGITAL CE TOOLS FOR SENIORS

BEST PRACTICES REPORT

Seniors for Circular Economy

(SEN4CE)

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TABLE OF CONTENT

Introduction

In the framework of the PR3, the SEN4CE project aims to design a course curriculum on digital Circular Economy platforms and tools for seniors, closing gaps of existing approaches and creating synergies with other projects addressing the same target group. To achieve this goal, the project partners have conducted a needs analysis based on the existing good practices, i.e., applications and platforms on circular economy for seniors, applied at the regional, national and international levels.

Having conducted this analysis, each project partner should collect 15 examples of circular economy platforms, websites or applications available in their regions (5) and also in their countries (5) and 5 international one. Answering some predefined questions, the partners analysed the intergenerational connectivity, the digital skills needed among other issues.

At the end, Consortium have reached only 75 answers (presented in the following pages by chronological order for each geographical level). Partners encountered some problems to find applications or platforms at regional level, however, these gaps were filled by a greater number of identified international platforms and applications.

Based on the questionnaire analysis, conducted in each partner country at the previous step of the PR3 delivery, the SEN4CE partners compared their analysis results with the good practices identified at the regional, national and international level. This allowed them to see whether the issues, i.e., basic digital skills needed, or some behavioural patterns pointed out by the respondents are addressed by the identified good practices. And if not, how the SEN4CE project could contribute to solving these issues by creating synergies with the existing initiatives or tailor-making a course curriculum in accordance with the real needs of its target group could use these platforms or applications related to Circular Economy.

International Best practices

HP Instant Ink

![hp instant Ink logo]

Creation date and organisation	1935; HP inc.
Location	International
Reference links	https://instantink.hpconnected.com/
Short description	HP Instant Ink services are based on pages, not cartridges. Choose your plan based on the pages you print each month.

What are the competences and learning outcomes related to CE that the user will learn?

HP uses recycled materials in 100% of Original HP toner cartridges and 85% of Original HP printer cartridges.

How does this practice address intergenerational connectivity?

It is not specifically for seniors.

What are the needed digital skills or use the digital app/platform?

Website, App and printer.

Are they suitable for seniors (barriers-free)?

Yes (ICT device) & online banking.

How is it promoted to the seniors?

It is not specifically for seniors.

Has the digital app/platform any guide or tutorial to use it?

Information's can be found on website.

HappyCow

Creation date and organisation	1999; Eric Brent
Location	Worldwide, more than 180 countries.
Reference links	https://www.happycow.net/ https://www.happycow.net/mobile
Short description	An app and website listing vegan and plant-based business (close to 200,000). Like Google and other search platforms, it shows you options nearby based on filter criteria. Every business listed on HappyCow offers at least 1-3 vegan options of products.

What are the competences and learning outcomes related to CE that the user will learn?

Reduce the environmental impact of food production and promotion of sustainable diets.

How does this practice address intergenerational connectivity?

It is not specifically for seniors.

What are the needed digital skills or use the digital app/platform?

App and/or website usage.

Are they suitable for seniors (barriers-free)?

It is for seniors with basic digital skills.

How is it promoted to the seniors?

It is not specifically for seniors.

Has the digital app/platform any guide or tutorial to use it?

FAQ section, newsletter and forum.

FreeCycle

Creation date and organisation	2003; Deron Beal
Location	Tucson (Arizona) but now the concept has spread to more than 110 countries
Reference links	https://www.freecycle.org/
Short description	The Freecycle Network® is made up of more than 5,000 local Town groups with over 9 million members across the globe. It's a grassroots and entirely nonprofit movement of people who are giving (and getting) stuff for free in their own towns and keeping good stuff out of landfills. Membership is free, and everything posted must be free, legal and appropriate for all ages.

What are the competences and learning outcomes related to CE that the user will learn?

They learn about the importance of reusing and at the same time, help the planet, the people, with their actions. Waste management is also considered.

How does this practice address intergenerational connectivity?

It is not specifically for seniors.

What are the needed digital skills or use the digital app/platform?

Navigate on the website.

Are they suitable for seniors (barriers-free)?

Yes (website usage, registration, etc.).

How is it promoted to the seniors?

It is not specifically for seniors.

Has the digital app/platform any guide or tutorial to use it?

No.

iFixit

Creation date and organisation	2003; Kyle Wiens and Luke Soules
Location	US-based but internationally active.
Reference links	https://www.ifixit.com/
Short description	A wiki-based website that shows how to repair IT equipment, household appliances, vehicles and other things.

What are the competences and learning outcomes related to CE that the user will learn?

Repairing instead of throwing away.

How does this practice address intergenerational connectivity?

It is not specifically for seniors.

What are the needed digital skills or use the digital app/platform?

Navigate on the website.

Are they suitable for seniors (barriers-free)?

Yes (website usage).

How is it promoted to the seniors?

It is not specifically for seniors.

Has the digital app/platform any guide or tutorial to use it?

Many, since that is the idea of the website.

Blablacar

Creation date and organisation	2006; Frèdéric Mazzella; Francis Nappez; Nicolas Brusson; Nicolas Deroche
Location	Mainly Europe
Reference links	https://support.blablacar.com/hc/en-gb/sections/360004175000-How-BlaBlaCar-works
Short description	BlaBlaCar is the world's leading community-based travel community, enabling more than 90 million users to travel in 22 different markets. BlaBlaCar leverages technology to fill empty seats on journeys, connect carpoolers and bus riders, and make travel more affordable, convenient and interesting. BlaBlaCar's environmentally friendly and people-oriented mobility network saves 1.6 million tonnes of CO_2 emissions per year and generates 120 million people-to-people connections per year.

What are the competences and learning outcomes related to CE that the user will learn?

l skills to use the app. Apart from that, knowing the concept of carpooling.

How does this practice address intergenerational connectivity?

It is not specifically for seniors.

What are the needed digital skills or use the digital app/platform?

You need digital skills to be able to download the app, to navigate through it and contact with the others person of the car.

Are they suitable for seniors (barriers-free)?

Yes (ICT usage).

How is it promoted to the seniors?

It is not specifically for seniors.

Has the digital app/platform any guide or tutorial to use it?

On the website there are several tabs that answer your questions about how Blablacar works, what are the principles of the community, etc. In addition, there is a YouTube channel of the company with some videos, mostly promotional.

Momox

Creation date and organisation	2006; Momox SE
Location	Operates in Europe
Reference links	https://momox.biz/
Short description	Re-commerce company for buying and selling used books and media

What are the competences and learning outcomes related to CE that the user will learn?

By selling on momox.com, you are actively contributing to the conservation of resources. momox buys up to 150,000 products every day that people have cared for and loved. We feed these products into a regenerative system that sustains our continued existence on this planet: The circular economy.

How does this practice address intergenerational connectivity?

It is not specifically for seniors.

What are the needed digital skills or use the digital app/platform?

Website and QR Scanner.

Are they suitable for seniors (barriers-free)?

Yes (ICT device).

How is it promoted to the seniors?

It is not specifically for seniors.

Has the digital app/platform any guide or tutorial to use it?

Information's can be found on website and Appstore.

Vinted

Creation date and organisation	2008; Milda Mitkute and Justas Janauskas
Location	It was created in Lithuania and then expanded to other 12 countries such as France, Germany, UK, Poland, Czech Republic, Spain, Italy, the Netherlands.
Reference links	https://www.nobbot.com/servicios-en-la-red/que-es-como-funciona-vinted/#id3; https://www.vinted.es/
Short description	An online, community-based marketplace that allows users to sell, buy and trade second-hand clothing and accessories.

What are the competences and learning outcomes related to CE that the user will learn?

Apart from learning from mobile methodology, they will learn indirectly about changes consumers patterns; product shelf-life extension, etc.

How does this practice address intergenerational connectivity?

It is not specifically for seniors.

What are the needed digital skills or use the digital app/platform?

Digital skills to use the website or app to upload products, manage their sale, ship them, receive the money and transfer it to your own account, etc.

Are they suitable for seniors (barriers-free)?

Yes (ICT device).

How is it promoted to the seniors?

It is not specifically for seniors.

Has the digital app/platform any guide or tutorial to use it?

There is a pro seller's manual and some general information about VINTED usability on the website.

Ecosia

Creation date and organisation	2009; Christian Kroll in partnership with other search engines such as Google and Bing.
Location	It was created in Germany, but it can be used anywhere in the world.
Reference links	https://www.ecosia.org/
Short description	Ecosia was born with the mission to plant trees and stop the deforestation of the planet.
	In this intuitive search engine, you can perform any type of search, just like in Google, Yahoo! or Bing. In addition, just below the bar where keywords are entered, there is a real-time counter showing the number of trees that have been planted thanks to the website's users.
	Ecosia also has a mobile application for Android and iOS, which allows you to contribute to the cause from any mobile device. It also has an extension for browsers such as Chrome and Safari, which will make it your default search engine.

What are the competences and learning outcomes related to CE that the user will learn?

Apart from learning from mobile methodology, they will learn deforestation, climate change, impact on the planet.

How does this practice address intergenerational connectivity?

It is not specifically for seniors.

What are the needed digital skills or use the digital app/platform?

Digital skills to use the website or its app.

Are they suitable for seniors (barriers-free)?

Yes (ICT device).

How is it promoted to the seniors?

It is not specifically for seniors.

Has the digital app/platform any guide or tutorial to use it?

No.

Trove

Creation date and organisation	2012; Ellen Macarthur foundation
Location	San Francisco, California
Reference links	https://trove.com/ https://trove.com/products-services/ https://trove.com/sustainability/
Short description	Trove gives companies access to their own products in the secondary market by offering a platform that makes it easy for brands to buy back and resell used items. The platform provides brands with the technology and logistics to develop customisable resale channels that allow companies to gain access to the secondary market. By extending the life of high-quality products and bringing them back into the marketplace, circular shopping ensures that we do not waste the resources that we used to produce each item.

How does this practice address intergenerational connectivity?

Prevention of waste, Reuse.

What are the needed digital skills or use the digital app/platform?

It requires IT knowledge.

Are they suitable for seniors (barriers-free)?

Yes (ICT device).

How is it promoted to the seniors?

It is not specifically for seniors.

Has the digital app/platform any guide or tutorial to use it?

No.

Klaxit

Creation date and organisation	2013; WayzUp
Location	France, Luxembourg, Germany and Switzerland
Reference links	https://www.youtube.com/watch?v=KE4HHCzUyS4; https://play.google.com/store/apps/details?id=com.wayzup.wayzupapp&hl=es_419&gl=US
Short description	It is the daily carpooling app for regular journeys, including home-to-work carpooling.

What are the competences and learning outcomes related to CE that the user will learn?

Use carpooling and save planet through sharing economy.

How does this practice address intergenerational connectivity?

It is not specifically for seniors.

What are the needed digital skills or use the digital app/platform?

To know how to download an app. To have a smartphone and know how to use it.

Are they suitable for seniors (barriers-free)?

Yes (ICT device). It is known to be very easy to use.

How is it promoted to the seniors?

It is not specifically for seniors.

Has the digital app/platform any guide or tutorial to use it?

Yes.

Phenix

Creation date and organisation	2014; N/A
Location	France, Spain, Portugal, Belgium, Italy, Hong Kong
Reference links	https://www.wearephenix.com/en/application-anti-waste/
Short description	Every day, businesses in your neighbourhood (grocery stores, restaurants, bakeries, …) throw away their products, having failed to sell them during the day. The Phenix app gives you the chance to save these products, for a small price, by choosing between themed baskets from each business.

What are the competences and learning outcomes related to CE that the user will learn?

Learn about anti-waste. Consume more responsibly.

How does this practice address intergenerational connectivity?

It is not specifically for seniors.

What are the needed digital skills or use the digital app/platform?

To know how to download an app. To have a smartphone.

Are they suitable for seniors (barriers-free)?

Yes (ICT device).

How is it promoted to the seniors?

It is not specifically for seniors.

Has the digital app/platform any guide or tutorial to use it?

No.

Refill

Creation date and organisation	2015; City to Sea
Location	UK
Reference links	https://www.refill.org.uk/get-involved/
Short description	Refill app connects people with place where to shop with less waste by refilling or using reuseble packaging.

What are the competences and learning outcomes related to CE that the user will learn?

Transition towards reuse systems, tackle plastic waste problem.

How does this practice address intergenerational connectivity?

It is not specifically for seniors.

What are the needed digital skills or use the digital app/platform?

Navigate the app.

Are they suitable for seniors (barriers-free)?

Yes (ICT device).

How is it promoted to the seniors?

It is not specifically for seniors.

Has the digital app/platform any guide or tutorial to use it?

Information's can be found on website.

Good on you

Creation date and organisation	2015; in collaboration with the NGO Ethical Consumers Australia
Location	Australia
Reference links	https://goodonyou.eco/about/
Short description	An online application and platform that evaluates over 200 clothing brands in three main areas: working conditions, environment and animal welfare to help consumers make sustainable choices.

What are the competences and learning outcomes related to CE that the user will learn?

Learning about fast fashion. Learning which brands are to avoid and why.

How does this practice address intergenerational connectivity?

It is not specifically for seniors.

What are the needed digital skills or use the digital app/platform?

To know how to download an app. To have a smartphone or computer.

Are they suitable for seniors (barriers-free)?

Yes (ICT device).

How is it promoted to the seniors?

It is not specifically for seniors.

Has the digital app/platform any guide or tutorial to use it?

No.

Junker

Creation date and organisation	2015; Giunko Srl
Location	Operates in Europe
Reference links	https://www.junker.app/
Short description	Mobile application for smartphones that helps citizens to sort household waste correctly and quickly, helping to reduce the fraction of unsorted waste. It has been included in the European Parliament's circular economy white paper.

What are the competences and learning outcomes related to CE that the user will learn?

Helps to recycle properly.

How does this practice address intergenerational connectivity?

It is not specifically for seniors.

What are the needed digital skills or use the digital app/platform?

Use the app, scan with camera.

Are they suitable for seniors (barriers-free)?

Yes (ICT device).

How is it promoted to the seniors?

It is not specifically for seniors.

Has the digital app/platform any guide or tutorial to use it?

There is a video on the website.

Olio

Creation date and organisation	2015; Tessa Clarke and Saasha Celestial
Location	55 countries
Reference links	https://olioex.com/about/ ; https://www.salixwriting.com/post/the-10-best-circular-apps-for-zipping-your-food-waste
Short description	OLIO connects neighbours with each other and with local businesses so surplus food can be shared, not thrown away. This could be food nearing its sell-by date in local stores, spare home-grown vegetables, bread from your baker, or the groceries in your fridge when you go away. For your convenience, OLIO can also be used for non-food household items, too. Although there is a section on sale, everything else is free!

What are the competences and learning outcomes related to CE that the user will learn?

Apart from learning from mobile methodology, it empowers local communities with a free, accessible and effective solutions to reduce waste,

How does this practice address intergenerational connectivity?

It is not specifically for seniors.

What are the needed digital skills or use the digital app/platform?

You need digital skills to be able to download the app and navigate through it to choose the items you are interested in.

Are they suitable for seniors (barriers-free)?

Yes (ICT device).

How is it promoted to the seniors?

It is not specifically for seniors.

Has the digital app/platform any guide or tutorial to use it?

There is a question-and-answer section on the website. Apart from that, they have a blog and also some videos in YouTube.

Too Good To Go

Creation date and organisation	2015; Toogoodtogo GmbH
Location	Operates in different European countries
Reference links	https://www.toogoodtogo.com/en/user
Short description	Mobile app that connects customers with restaurants and stores that have unsold, surplus food and sell it at a discounted price to self-pickup customers.

What are the competences and learning outcomes related to CE that the user will learn?

The idea behind the concept is primarily to save food that would have ended up in the trash. In order to curb the climate-damaging waste caused by superfluously produced food, the company offers a platform for last-minute rescues, as well as tips from the no-food-waste movement.

How does this practice address intergenerational connectivity?

It is not specifically for seniors.

What are the needed digital skills or use the digital app/platform?

App usage, online banking.

Are they suitable for seniors (barriers-free)?

Yes (ICT device) & online banking.

How is it promoted to the seniors?

It is not specifically for seniors.

Has the digital app/platform any guide or tutorial to use it?

No, all information needed are found on website.

Fat Llama

Creation date and organisation	2016; Fat Llama Limited
Location	UK based
Reference links	https://fatllama.com/
Short description	Peer-to-peer rental platform for all different items.

What are the competences and learning outcomes related to CE that the user will learn?

Be part of the sharing economy.

How does this practice address intergenerational connectivity?

It is not specifically for seniors.

What are the needed digital skills or use the digital app/platform?

Navigate on the website.

Are they suitable for seniors (barriers-free)?

Yes (website usage).

How is it promoted to the seniors?

It is not specifically for seniors.

Has the digital app/platform any guide or tutorial to use it?

No, all information needed are found on website.

Free2Move

Creation date and organisation	2016; Stellantis NV
Location	Its main headquarters is in Amsterdam, but they are located now aroura Europe and United States
Reference links	https://www.free2move.com/en-GB/free-floating-car-sharing
Short description	Car rental and shared mobility solutions company. The company is a leader in mobility, structuring its service offer to meet the new social, environmental and economic challenges. It is a global mobility brand that offers a complete and unique ecosystem for its private and professional customers in Europe and the United States. In tune with the times, the brand is now a mobility hub that structures its service offering around all types of rental needs, but also by simplifying mobility in the broadest sense of the term with complementary offers accessible via the Free2Move application.

What are the competences and learning outcomes related to CE that the user will learn?

Digital skills to use the app. Apart from that, knowing the concept of car sharing and other green mobilities such as renting cars.

How does this practice address intergenerational connectivity?

It is not specifically for seniors. However, it can be useful for older people who do not always have a car, especially in cities. It can help them to get around occasionally without public transport but also without having a car.

What are the needed digital skills or use the digital app/platform?

They must be able to use the app, both to manage the service, and then to unlock the car, end the service by indicating the new location of the car, etc.

Are they suitable for seniors (barriers-free)?

Yes (website usage).

How is it promoted to the seniors?

It is not specifically for seniors.

Has the digital app/platform any guide or tutorial to use it?

There are videos on YouTube and some information also on the website explaining the use.

Karma

Creation date and organisation	2016; N/A
Location	Sweden, UK, France
Reference links	https://old.karma.life/
Short description	The app, Karma, is a food rescue app that allows retailers to sell their surplus food to consumers at a lower price – instead of having great food go to waste.

What are the competences and learning outcomes related to CE that the user will learn?

Learn about anti-waste. Consume more responsibly.

How does this practice address intergenerational connectivity?

It is not specifically for seniors.

What are the needed digital skills or use the digital app/platform?

To know how to download an app. To have a smartphone.

Are they suitable for seniors (barriers-free)?

Yes (ICT device).

How is it promoted to the seniors?

It is not specifically for seniors.

Has the digital app/platform any guide or tutorial to use it?

No.

Yuka

Creation date and organisation	2016; Julie, François and Benoit Chapon
Location	Spain, France, Belgium, Switzerland, Luxembourg, United Kingdom, Ireland, Germany, Italy, North America, Australia, and Canada.
Reference links	https://yuka.io/en/
Short description	Yuka scans food and cosmetic products to decipher their composition and assess their health effects. With the aim of improving the way we consume; Yuka brings simplicity and transparency to understand product labels in one click. A simple colour code is used to indicate the health effects of each product: excellent, good, mediocre or bad. It is then possible to access a detailed card to understand in detail the evaluation of each item.

What are the competences and learning outcomes related to CE that the user will learn?

Learn about consumption and nutrition, understand labelling and the health impact,

How does this practice address intergenerational connectivity?

It is not specifically for seniors.

What are the needed digital skills or use the digital app/platform?

To know how to download an app. To have a smartphone.

Are they suitable for seniors (barriers-free)?

Yes (ICT device).

How is it promoted to the seniors?

It is not specifically for seniors.

Has the digital app/platform any guide or tutorial to use it?

No, but it has a blog and also a questions section.

Etiquettable

Creation date and organisation	2017; Etiquettable
Location	France, Switzerland, Belgium, Quebec, Morocco
Reference links	https://etiquettable.eco2initiative.com/application/
Short description	Etiquettable is a free collaborative mobile application for sustainable food for all citizens. It includes 6 modules: seasonal fruits and vegetables, endangered fish, low-carbon recipes, tips and information, committed restaurants, and producers and stores.

What are the competences and learning outcomes related to CE that the user will learn?

A better understanding on the impact of our choice of food on the environment. Tips on how to consume more responsibly and locally.

How does this practice address intergenerational connectivity?

It is not specifically for seniors.

What are the needed digital skills or use the digital app/platform?

To know how to download an app. To have a smartphone and know how to use it.

Are they suitable for seniors (barriers-free)?

Yes (ICT device). It is known to be very easy to use.

How is it promoted to the seniors?

It is not specifically for seniors.

Has the digital app/platform any guide or tutorial to use it?

Yes.

Refurbed

Creation date and organisation	2017; Refurbed GmbH
Location	Operates in different European countries
Reference links	https://www.refurbed.ie/
Short description	Re-commerce platform for electronical devices

What are the competences and learning outcomes related to CE that the user will learn?

Responsible consumption.

How does this practice address intergenerational connectivity?

It is not specifically for seniors.

What are the needed digital skills or use the digital app/platform?

Navigate on the website.

Are they suitable for seniors (barriers-free)?

Yes (website usage).

How is it promoted to the seniors?

It is not specifically for seniors.

Has the digital app/platform any guide or tutorial to use it?

No, all information needed are found on website.

Cotton Move

Creation date and organisation	2018; Cotton Move
Location	São Paulo, Brazil
Reference links	https://www.plataformacircular.app/plataforma plataforma@cottonmove.com.br ; https://www.plataformacircular.app/
Short description	They develop circular textile products from recycling. They have the mission to reduce the negative reflection of textile and clothing production on the environment, reusing and recovering raw materials and natural resources in their manufacturing process. They believe that it is possible to transform fashion through Circular Design, valuing cotton fibres and respecting socio-environmental conformities.

The platform also has a Blog area, where informative posts on issues linked to Circular Economy, the planting of cotton and innovations launched by the partners involved, are updated. The posts also inform about conscious and shared waste management, fostering greater transparency in the Fashion textile system. They act as a link between producers, industries, commerce, retailers and consumers, structuring processes for the Circular Economy and new consumer relations. |

What are the competences and learning outcomes related to CE that the user will learn?

The platform aims to offer an inclusive service that caters for all classes. They generate positive results in environmental health and quality of life, by saving natural resources and avoiding more textile waste accumulation in landfills and dumps or burning in inappropriate places. They believe that Fashion can become a reference of good practices in reverse logistics and manufacturing systems, as already happens in the sectors of agrochemicals and medicines.

How does this practice address intergenerational connectivity?

It is not specifically for seniors.

What are the needed digital skills or use the digital app/platform?

By consulting the georeferenced map, you will identify collection points to dispose of your clothes made of cotton – whether jeans or knitwear. The clothes will be collected with the

support of a reverse manufacturing system and used to create and produce products based on the principles of sustainability.

Are they suitable for seniors (barriers-free)?

Yes (platform usage and also localisation in maps).

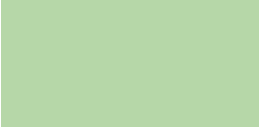*How is it promoted to the seniors?*

It is not specifically for seniors.

Has the digital app/platform any guide or tutorial to use it?

No.

Mercato Circolare

Creation date and organisation	2019; Circular Market Ltd Società Benefit
Location	Torino, Italy
Reference links	https://circulareconomy.europa.eu/platform/en/good-practices/mercato-circolare-smartphone-app-searching-circular-economy-products-services-and-events https://www.mercatocircolare.it/en/home-eng/
Short description	Mercato Circolare, a free-of-charge smartphone application created by an innovative start-up, can be used to search for circular economy products, services and events in Italy and elsewhere. It works as a platform and to date has around 400 activities among companies, products, events. The social impact of Mercato Circolare – in addition to the creation of jobs – is threefold: 1. dissemination of the circular economy as a paradigm of production and distribution oriented towards sustainability; 2. involvement of the public and support for the development of more sustainable habits and lifestyles and, 3. stimulation of research and

innovation activities, involving companies, universities, research centres and public actors.

What are the competences and learning outcomes related to CE that the user will learn?

Production, Consumption, Waste management, Secondary raw materials.

How does this practice address intergenerational connectivity?

It is not specifically for seniors.

What are the needed digital skills or use the digital app/platform?

It requires IT knowledge that most seniors do not have.

Are they suitable for seniors (barriers-free)?

Yes (platform usage).

How is it promoted to the seniors?

It is not specifically for seniors.

Has the digital app/platform any guide or tutorial to use it?

No.

Giki

Creation date and organisation	2020; James Hand and Jo Hand (Giki Social Enterprise)
Location	UK but also available in other 10 countries.
Reference links	https://giki.earth/ https://giki.earth/giki-zero-app-download/
Short description	This application will help you to understand your carbon footprint by showing you the impact of your everyday actions. Your track progress could be checked with your Giki Score and also the app could give you new ideas to live sustainably.

What are the competences and learning outcomes related to CE that the user will learn?

The app aims to do more than inform individuals about their CO_2 consumption. By encouraging participation, it fosters collective action and empowers users to demand climate protection from politicians.

How does this practice address intergenerational connectivity?

It is not specifically for seniors.

What are the needed digital skills or use the digital app/platform?

App and/or website usage.

Are they suitable for seniors (barriers-free)?

It is for seniors with basic digital skills.

How is it promoted to the seniors?

It is not specifically for seniors.

Has the digital app/platform any guide or tutorial to use it?

No, but there is a blog and also a FAQS section.

Kuri

Creation date and organisation	2020; Baptiste Malaguti
Location	U.S., Canada, The U.K., France and other EU countries
Reference links	https://kuri.co/
Short description	Kuri is an eco-responsible cooking app, which helps to adopt seasonal cooking. Kuri learns and adapts to preferences, tastes and eating habits. It has more than 750 recipes, organizes shopping lists and supports local farmers.

What are the competences and learning outcomes related to CE that the user will learn?

Eat more seasonal. Eat local products. Support local agriculture.

How does this practice address intergenerational connectivity?

It is not specifically for seniors.

What are the needed digital skills or use the digital app/platform?

To know how to download an app and use a search engine.

Are they suitable for seniors (barriers-free)?

It is for seniors with intermediate digital skills.

How is it promoted to the seniors?

It is not specifically for seniors.

Has the digital app/platform any guide or tutorial to use it?

Yes.

Meatless

Creation date and organisation	2020; Max Haider & Bernhard Waidacher
Location	Operates in more than 130 countries
Reference links	https://meatless-app.com/
Short description	Meatless helps reduce your meat intake and tracks produced carbon emissions and water usage caused by your diet. The data used for the calculation is based on your country.

What are the competences and learning outcomes related to CE that the user will learn?

This app helps users to record their consumption of vegetables and meat. The ecological impact of their daily diet, such as water consumption or greenhouse gas emissions, can be tracked in detail.

How does this practice address intergenerational connectivity?

It is not specifically for seniors.

What are the needed digital skills or use the digital app/platform?

App usage, registration.

Are they suitable for seniors (barriers-free)?

Not specifically.

How is it promoted to the seniors?

It is not specifically for seniors.

Has the digital app/platform any guide or tutorial to use it?

There is no information.

Ferris- The Zero Waste App

Creation date and organisation	2021; Circular Economy Matchmaker
Location	London (UK)
Reference links	https://play.google.com/store/apps/details?id=co.ferrisapp&hl=en_IN&gl=US ; https://www.ferrisapp.co/
Short description	Ferris is the Zero Waste App for giving and getting household items for free. They exist to inspire consumers to reduce waste by making the circular economy fun and rewarding. Users can register to post unwanted household items, or to take posted items. All items must be offered for free. the app is designed for ease of use, so that anyone can post or request items quickly and safely. It takes 30 secs to post something, and less to request an item – three clicks! They offer: ▪ Sponsorship opportunities to brands looking to engage with our London-based zero waste audience. ▪ Reuse/circular economy data and messaging recommendations to businesses and public bodies looking to make informed decisions in the reuse/circular economy space – using real-world reuse data. ▪ Behaviour change support for councils/local authorities, using latest digital technologies. Ferris is the Zero Waste App for giving and getting second-hand stuff for free. Give your once loved items a brand-new home and find amazing new gems. From designer clothes to sofas, blenders to kid's toys, books to exercise equipment. You can find and give away anything you like on Ferris. Every item shared keeps it out of landfill and helps the planet.

What are the competences and learning outcomes related to CE that the user will learn?

They learn about the importance of reusing and at the same time, help the planet, the people, with their actions. Waste management is also considered. It helps people reduce clutter.

How does this practice address intergenerational connectivity?

It is not specifically for seniors. However, by making available what you no longer need you are helping those who need it most. The resulting communication can promote intergenerationality.

What are the needed digital skills or use the digital app/platform?

The user must be able to download the app and explore her. It requires some technological knowledge.

Are they suitable for seniors (barriers-free)?

Yes (ICT device).

How is it promoted to the seniors?

It is not specifically for seniors.

Has the digital app/platform any guide or tutorial to use it?

No.

Label 2020- Efficiency check

Creation date and organisation	2021; Project team Label 2020–Projektes
Location	Europe (Horizon)
Reference links	https://tool.label2020.eu/at
Short description	With the Efficiency Check, you get information about those that are listed on the energy label. With this information, the comparison of the devices becomes easier, and you can also better assess the operating costs and estimated total costs.

What are the competences and learning outcomes related to CE that the user will learn?

Data is from EPREL, a product database of the European Commission. App calculates total costs of an electrical appliance over its lifetime for informed consumer decisions. App also provides general info on new energy label and efficiency.

How does this practice address intergenerational connectivity?

It is not specifically for seniors.

What are the needed digital skills or use the digital app/platform?

Website, App and QR Scanner.

Are they suitable for seniors (barriers-free)?

Yes (ICT device).

How is it promoted to the seniors?

It is not specifically for seniors.

Has the digital app/platform any guide or tutorial to use it?

Information can be found on website, there is a user guide.

Send it back

Creation date and organisation	2021; Cisco Systems, Inc.
Location	Available on the European union, UK and USA
Reference links	https://apps.apple.com/us/app/send-it-back/id1140287915 https://play.google.com/store/apps/details?id=com.cisco.sitb
Short description	App focuses on circular economy of end-of-life hardware. The new application created by Cisco allows customers to return equipment more easily for repair, reconditioning and reuse, thus extending its useful life and contributing to the creation of a circular economy. Cisco has announced the launch of the Send IT Back App, a tool for reusing technology to make it easier and faster for its customers to embrace the circular economy. The App enables customers to return their end-of-life products in a simple, safe and sustainable way. To arrange a hardware collection, customers simply need to download the iOS or Android version of the Send IT Back app and photograph the devices they wish to return.

What are the competences and learning outcomes related to CE that the user will learn?

About the importance of saving resources by using the Appp the users can save the cost of moving, storing, tracking and managing used Cisco equipment removed from your networks. informed consumer decisions.

How does this practice address intergenerational connectivity?

It is not specifically for seniors.

What are the needed digital skills or use the digital app/platform?

It is demanding for seniors. It requires technological competencies..

Are they suitable for seniors (barriers-free)?

Yes (ICT device).

How is it promoted to the seniors?

It is not specifically for seniors.

Has the digital app/platform any guide or tutorial to use it?

No.

Environmental Change

Creation date and organisation	2022; Danmar Computers.
Location	European (Erasmus + project) from Poland, Greece, Spain, Portugal and Slovenia
Reference links	https://play.google.com/store/apps/details?id=eu.dcnet.environmental change&pli=1; https://apps.apple.com/us/app/environmental-change/id6443677096%20
Short description	The app aims to ensure that startups, young entrepreneurs and VET (vocational education and training) providers take advantage of digital technologies to develop their skills and competences in the field of environmental change, and thus be prepared to influence sustainable processes.

What are the competences and learning outcomes related to CE that the user will learn?

Apart from learning from mobile methodology, they will learn about the following key areas: 1. Ways of transition to natural energy and combating climate change; 2. Towards biodiversity and ecological transformation; 3. Plastic waste management; 4. Redesigning products and services to minimise the use of materials; 5. Circular business models; 6. Life cycle thinking.

How does this practice address intergenerational connectivity?

It is not specifically for seniors.

What are the needed digital skills or use the digital app/platform?

Capacity to download an app, capacity to work with mobile learning; capacity to work with scenarios training path methodologies.

Are they suitable for seniors (barriers-free)?

Yes (ICT device).

How is it promoted to the seniors?

It is not specifically for seniors.

Has the digital app/platform any guide or tutorial to use it?

No.

Food to Save: Salve alimentos

Creation date and organisation	2023; Google Commerce Ltd.
Location	Brazil.
Reference links	https://play.google.com/store/apps/details?id=com.foodtosave.foodtosave
Short description	Food To Save is the first Brazil app against food waste. Be a #foodsaver and save food from establishments in your region with up to 70% off and be part of this sustainable movement, reducing food waste! How it works? 1. Choose an establishment near you! Through our platform, establishments sell their daily production surpluses to our #foodsavers. Receive assorted foods and enjoy delicious Surprises with up to 70% off. 2. Choose whether to pick up your Surprise Bag at the establishment or receive it at home. 3. Make the payment and that's it! Now you are part of the largest community to combat food waste in Brazil.

Goals and results: Did you know that 30% of all food produced in the world is thrown away? We have already saved over 50 tons of food that would otherwise be wasted.

In addition to reducing the environmental impact caused by this disposal, we help local businesses and reduce user spending on food. Brazil is currently among the 10 countries that waste the most food in the world and our objective is to transform the way of consuming food in Latin America, engaging people to rethink their habits, and thus contribute to a more sustainable and humane future. It is available in some cities of Brazil.

What are the competences and learning outcomes related to CE that the user will learn?

Learn about food waste and save some money.

How does this practice address intergenerational connectivity?

It is not specifically for seniors. However, when you use the app, you can select receive at home, or go there and pick up your order. It enhances the chances of communication between people. It promotes the sense of community saying that people are now part of a community against food waste.

What are the needed digital skills or use the digital app/platform?

It is demanding for seniors. It requires technological competencies to use the app.

Are they suitable for seniors (barriers-free)?

Yes (ICT device).

How is it promoted to the seniors?

It is not specifically for seniors.

Has the digital app/platform any guide or tutorial to use it?

No.

Conclusions

- There are not specific apps or platforms for seniors, so these practices do not address specifically intergenerational connectivity.

- Seniors must have a minimum basic digital skill to use these platforms or apps, such as use ICT devices (specifically smartphones), download apps from marketplaces, create accounts, and bank details and even use maps or geo-localisation.

- Although in some practices there are manuals or information on the website, it is not common. The use of these apps and platforms is more autodidactic.

- These practices are not promoted specifically for seniors and according to the survey and the needs analysis done by SEN4CE in the framework of R3, most seniors don't know these practices.

- Although it has been identified practices since 1935, most of the circular practices arrive to the market in 2015-2016.

- The main topics covered by the international practices identified are CE awareness, prevention of waste and re-use/second-hand (with 5-6 practices in each of the three topics). In addition, other topics covered by the practices are carpooling, sharing economy, recycling, repairing or refilling.

Ideas to draw for SEN4CE project

- Seniors need to be made aware of these applications. But not only in the form of promotion. Make sure they have the basic digital skills to be able to implement the application correctly (download it, use it, pay with it, etc.). For this, some instructions/manuals will be key.

- Identify which platforms or apps they can find in their native languages because most of the over-60s do not speak English.

- Among the platforms to teach them, it will be necessary to select those related to the themes they indicated in the needs analysis: prevention of waste, repairing, reuse, etc.

- Moreover, it will be interesting, in addition to the training material that is being developed in the framework of the project, to use as support the more general applications/platforms available on the market to increase awareness on Circular Economy.

National Best practices

Austria

Thrift shop (Carla)

Creation date and organisation	1903; Caritas Österreich.
Location	Austria
Reference links	https://www.carla.at/standorte/standort-suche
Short description	In those shops you can buy second hand clothes to extend the lifecycle.

What are the competences and learning outcomes related to CE that the user will learn?

Extension of the lifecycle of products.

Reduce, Reuse, Refurbish.

How does this practice address intergenerational connectivity?

It is not specifically for seniors. However, in the store, seniors could exchange ideas with younger customers, fashion trends always come back, so old clothes can be used again as well.

What are the needed digital skills or use the digital app/platform?

Capacity to download an app, capacity to work with mobile learning; capacity to work with scenarios training path methodologies.

Are they suitable for seniors (barriers-free)?

It is for seniors with basic digital skills.

How is it promoted to the seniors?

It is not specifically for seniors.

Has the digital app/platform any guide or tutorial to use it?

No. On the website you can find overview of good and stores, repairing service, and more.

Greendrive

Creation date and organisation	2014; Jonathan Gutschi
Location	Styria mostly, partly all Austria
Reference links	https://greendrive.at/de
Short description	Via the free app or on the PC, users enter their individual route, for example their daily commute to work. GREENDRIVE takes care of the rest and connects drivers and passengers automatically, in real time and with precise addresses – in contrast to conventional car-sharing agencies, which are less flexible.

What are the competences and learning outcomes related to CE that the user will learn?

Journeys and rides are created with just a few clicks, GREENDRIVE suggests the jointly travelled route, and drivers and passengers then agree on the cost sharing personally. Personal profiles and the possibility to rate each other's drivers or passengers after the shared journey make GREENDRIVE a "social mobility network" on four wheels and help to save CO2 and costs.

How does this practice address intergenerational connectivity?

It is not specifically for seniors.

What are the needed digital skills or use the digital app/platform?

App usage – registration (mail).

Are they suitable for seniors (barriers-free)?

It is for seniors with basic digital skills.

How is it promoted to the seniors?

It is not specifically for seniors.

Has the digital app/platform any guide or tutorial to use it?

No.

Vomland

Creation date and organisation	2021; VomLand (Markus Freiinger)
Location	All Austria
Reference links	https://www.vomland.eu/
Short description	The app connects farmers directly with consumers, so they can directly influence their region and shop regionally.

What are the competences and learning outcomes related to CE that the user will learn?

Farmers' markets are already closed in the evening when you leave the office. The only option is to go to the supermarket. Markus Freiinger wants to counter this with the new vomLand pick-up boxes and provides pick-up boxes for food orders from employees.

How does this practice address intergenerational connectivity?

It is not specifically for seniors.

What are the needed digital skills or use the digital app/platform?

App usage – registration (mail).

Are they suitable for seniors (barriers-free)?

It is for seniors with basic digital skills.

How is it promoted to the seniors?

It is not specifically for seniors.

Has the digital app/platform any guide or tutorial to use it?

No.

Digi Cycle GmbH

Creation date and organisation	2022; Digi-Cycle GmbH
Location	All Austria
Reference links	https://www.digi-cycle.at/#text-image
Short description	Scan the code on the packaging and the code on the collection container, drop in the packaging and collect the incentive or deposit. Digi-Cycle pays off for everyone involved – consumers, businesses and the environment.

What are the competences and learning outcomes related to CE that the user will learn?

The app is used to learn how to dispose of packaging correctly and recycle valuable materials. The environment benefits from recycled packaging and participants from attractive benefit offers.

How does this practice address intergenerational connectivity?

It is not specifically for seniors.

What are the needed digital skills or use the digital app/platform?

App usage – registration- information website.

Are they suitable for seniors (barriers-free)?

It is for seniors with basic digital skills.

How is it promoted to the seniors?

It is not specifically for seniors.

Has the digital app/platform any guide or tutorial to use it?

There is a video guide: https://www.youtube.com/watch?v=-G6vT5FgHmE&embeds_euri=https%3A%2F%2Fwww.digi-cycle.at%2F&feature=emb_title

Ein guter Tag hat 100 Punkte

Creation date and organisation	2022; Kairos – Institut für Wirkungsforschung & Entwicklung
Location	All Austria, even more.
Reference links	https://www.eingutertag.org/de/
Short description	The app allows you to track and improve your daily CO_2 balance, join a group to compare and improve your results, and participate in challenges to reduce your carbon footprint through small and big changes in your everyday life.

What are the competences and learning outcomes related to CE that the user will learn?

The app aims to do more than inform individuals about their CO_2 consumption. By encouraging participation, it fosters collective action and empowers users to demand climate protection from politicians.

How does this practice address intergenerational connectivity?

It is not specifically for seniors. However, you could use it for single person, groups, regions, etc.

What are the needed digital skills or use the digital app/platform?

App and/or website usage (long questionnaire in the beginning).

Are they suitable for seniors (barriers-free)?

It is for seniors with basic digital skills.

How is it promoted to the seniors?

It is not specifically for seniors.

Has the digital app/platform any guide or tutorial to use it?

More of a teaser video, explaining the concept behind the app: https://www.youtube.com/watch?v=z8RnPzs62Gg&t=1s

France

Le bon coin

Creation date and organisation	2006; Schibsted
Location	All France.
Reference links	https://www.leboncoin.fr/
Short description	Le bon coin is a free platform of collaborative consumption which puts in relation professionals as well as individuals in France, wishing to give, sell, rent or buy.

What are the competences and learning outcomes related to CE that the user will learn?

Reselling instead of throwing away. Lending/borrowing or buying second-hand instead of buying brand new.

How does this practice address intergenerational connectivity?

It is not specifically for seniors.

What are the needed digital skills or use the digital app/platform?

To know how to use a search engine. To be able to buy online.

Are they suitable for seniors (barriers-free)?

It is for seniors with basic digital skills.

How is it promoted to the seniors?

It is not specifically for seniors.

Has the digital app/platform any guide or tutorial to use it?

Yes,

La ruche qui dit oui!

Creation date and organisation	2010; La Ruche qui dit oui!
Location	France
Reference links	https://laruchequiditoui.fr/fr
Short description	La Ruche qui dit oui ! is a French commercial enterprise born of the collaborative economy. It provides farmers and food processors with an internet platform and app to facilitate short-distance sales.

LA RUCHE QUI DIT OUI !

What are the competences and learning outcomes related to CE that the user will learn?

Buying locally. Better understand agriculture, food and the collaborative economy. Better understand where your food comes from.

How does this practice address intergenerational connectivity?

It is not specifically for seniors.

What are the needed digital skills or use the digital app/platform?

To know how to use a search engine. To be able to buy online.

Are they suitable for seniors (barriers-free)?

It is for seniors with basic digital skills.

How is it promoted to the seniors?

It is not specifically for seniors.

Has the digital app/platform any guide or tutorial to use it?

No.

Allovoisins

Creation date and organisation	2012; N/A
Location	All across France
Reference links	https://www.allovoisins.com/page/qui-sommes-nous
Short description	AlloVoisins is the reference marketplace dedicated to services and equipment rental. From the request for a breakdown service or personal services to the most complex jobs, including equipment rental, the platform allows you to activate all the residents and professionals in the vicinity who are likely to meet all types of needs in just a few minutes.

What are the competences and learning outcomes related to CE that the user will learn?

Understanding the sharing economy. Consuming more responsibly: lending/borrowing instead of buying and throwing away.

How does this practice address intergenerational connectivity?

It is not specifically for seniors.

What are the needed digital skills or use the digital app/platform?

Know how to use an online platform.

Are they suitable for seniors (barriers-free)?

It is for seniors with basic digital skills.

How is it promoted to the seniors?

It is not specifically for seniors.

Has the digital app/platform any guide or tutorial to use it?

Yes,

Hopways

Creation date and organisation	2014; Hopways
Location	France
Reference links	https://www.hopways.com/
Short description	It is a platform for accompanying children to after-school activities. To share rides, you have to register and publish your ride for free, find companions by consulting rides similar to yours and sending a request to be put in contact, meet the companion(s), and start to co-accompany.

What are the competences and learning outcomes related to CE that the user will learn?

Use collaborative economy to cut down CO2 emissions.

How does this practice address intergenerational connectivity?

It is not specifically for seniors.

What are the needed digital skills or use the digital app/platform?

To know how to use a search engine and fill in some information online.

Are they suitable for seniors (barriers-free)?

It is for seniors with basic digital skills.

How is it promoted to the seniors?

It is not specifically for seniors.

Has the digital app/platform any guide or tutorial to use it?

No.

We act for good

Creation date and organisation	2018; WWF France
Location	France
Reference links	https://www.wwf.fr/vous-informer/actualites/le-wwf-france-lance-wag-we-act-for-good ; https://play.google.com/store/apps/details?id=org.wwf.wag&hl=fr&gl=US&pli=1
Short description	It is a tailor-made support program in the form of a telephone application that offers challenges, advice and tips on food, transportation, zero waste, Do It Yourself and energy.

What are the competences and learning outcomes related to CE that the user will learn?

Tips to do at home, related services and products, responsible places nearby, events to go further, recipes and guides to print.

Insights on the topics of Eating well, Towards Zero Waste, Do It Yourself, Getting around and Optimizing energy.

How does this practice address intergenerational connectivity?

It is not specifically for seniors.

What are the needed digital skills or use the digital app/platform?

To know how to download an app. To have a smartphone and know how to use it.

Are they suitable for seniors (barriers-free)?

It is for seniors with basic digital skills.

How is it promoted to the seniors?

It is not specifically for seniors.

Has the digital app/platform any guide or tutorial to use it?

Yes.

Ecowatt

Creation date and organisation	2020; RTE & ADEME
Location	France
Reference links	https://www.monecowatt.fr/ ; https://www.service-public.fr/particuliers/actualites/A15959
Short description	Ecowatt is an application that works as an electricity weather forecast, providing real-time information on the level of consumption in France. The aim is to encourage individuals, companies and local authorities to limit their consumption, particularly during targeted periods when the network is under tension. It gives other practical advice on how to cut down the electricity consumption.

What are the competences and learning outcomes related to CE that the user will learn?

Know how to cut down electricity consumption in a household,

How does this practice address intergenerational connectivity?

It is not specifically for seniors.

What are the needed digital skills or use the digital app/platform?

To know how to download an app. To have a smartphone and know how to use it.

Are they suitable for seniors (barriers-free)?

It is for seniors with intermediate digital skills.

How is it promoted to the seniors?

It is not specifically for seniors.

Has the digital app/platform any guide or tutorial to use it?

No.

Germany

Öffi

Creation date and organisation	N/A; Andreas Schildbach
Location	All Germany.
Reference links	https://oeffi.schildbach.de/index_de.html
Short description	Connection queries (from door to door), Real-time departure times (incl. delays), nearby stops (with map) and interactive network maps.

What are the competences and learning outcomes related to CE that the user will learn?

Use sustainable transportation more often.

How does this practice address intergenerational connectivity?

It is not specifically for seniors.

What are the needed digital skills or use the digital app/platform?

Navigate within the app.

Are they suitable for seniors (barriers-free)?

It is for seniors with basic digital skills.

How is it promoted to the seniors?

It is not specifically for seniors.

Has the digital app/platform any guide or tutorial to use it?

Yes,

Saison kalender

Creation date and organisation	N/A; Federal center of nutrition
Location	Germany
Reference links	https://www.bzfe.de/nachhaltiger-konsum/orientierung-beim-einkauf/der-saisonkalender/app-der-saisonkalender/
Short description	The BZfE seasonal calendar app is a practical mobile companion when shopping for fruit and vegetables. For each month, the app lists all the vegetables and fruits that are currently in peak harvest season, both from domestic production and for imported produce.

What are the competences and learning outcomes related to CE that the user will learn?

Assists to buy seasonal fruits and vegetables.

How does this practice address intergenerational connectivity?

It is not specifically for seniors.

What are the needed digital skills or use the digital app/platform?

Navigate within the app.

Are they suitable for seniors (barriers-free)?

It is for seniors with basic digital skills.

How is it promoted to the seniors?

It is not specifically for seniors.

Has the digital app/platform any guide or tutorial to use it?

Explanation on website

Foodsharing

Creation date and organisation	2012; Foodsharing e.V.
Location	Germany and in other countries as well
Reference links	https://play.google.com/store/apps/details?id=de.foodsharing.app&hl=de&gl=US
Short description	The Foodsharing team is fighting food waste! If you have excess food to give away, you can quickly share it with people around you via the app or mobile website. Are you going on holiday or are you overwhelmed by the tomato or courgette glut? Then share surplus food before it spoils. At the same time, you can easily see if anyone near you has food to give away.

What are the competences and learning outcomes related to CE that the user will learn?

Avoiding food waste, practice sharing-economy

How does this practice address intergenerational connectivity?

It is not specifically for seniors.

What are the needed digital skills or use the digital app/platform?

Navigate within the app.

Are they suitable for seniors (barriers-free)?

It is for seniors with basic digital skills.

How is it promoted to the seniors?

It is not specifically for seniors.

Has the digital app/platform any guide or tutorial to use it?

No.

Ecogator

Creation date and organisation	2013; Austrian Energy Agency
Location	Germany
Reference links	http://www.ecogator.de/
Short description	EcoGator is part of the Europe-wide "myEcoNavigator" campaign. This app offers buying advice for energy-saving appliances and thus contributes to climate protection. The app compares and rates appliances directly in the shop with label scanner. It was available until 2016.

What are the competences and learning outcomes related to CE that the user will learn?

Assists in buying resources saving appliances.

How does this practice address intergenerational connectivity?

It is not specifically for seniors.

What are the needed digital skills or use the digital app/platform?

To know how to download an app. To have a smartphone and know how to use it.

Are they suitable for seniors (barriers-free)?

It is for seniors with basic digital skills.

How is it promoted to the seniors?

It is not specifically for seniors.

Has the digital app/platform any guide or tutorial to use it?

No (app has disappeared in 2016).

Mundraub

Creation date and organisation	2018; N/A
Location	Germany
Reference links	https://mundraub.org/blog/mundraub-app
Short description	The Mundraub Navigator retrieves the locations from the Mundraub database and displays them in the app. You can also log in with your Mundraub account via the app and upload fruit trees on the go. These then appear both in the app and on the Mundraub map. In the first video we show you how to download the Mundraub app onto your mobile phone.

What are the competences and learning outcomes related to CE that the user will learn?

Value food, use local food, avoid food waste.

How does this practice address intergenerational connectivity?

It is not specifically for seniors.

What are the needed digital skills or use the digital app/platform?

Use and navigate with the app.

Are they suitable for seniors (barriers-free)?

It is for seniors with basic digital skills.

How is it promoted to the seniors?

It is not specifically for seniors.

Has the digital app/platform any guide or tutorial to use it?

Videos on the website explain how to download and use the app.

Portugal

Geota- Grupo de Estudos de Ordenamento do Território e Ambiente

Creation date and organisation	1981; DefineScope
Location	Portugal
Reference links	geota@geota.pt; https://play.google.com/store/apps/details?id=pt.geota.app
Short description	The application GEOTA Questionnaires aims to promote and facilitate participation in two citizen science projects – Coastwatch and Guardians of the Rivers – of GEOTA monitoring of the Portuguese coast and rivers. By filling out the questionnaires on site it is intended to collect environmental data to assess the environmental status of the same.

What are the competences and learning outcomes related to CE that the user will learn?

Monitoring of the Portuguese coast and rivers.

How does this practice address intergenerational connectivity?

It is not specifically for seniors.

What are the needed digital skills or use the digital app/platform?

To know how to download an app. To have a smartphone and know how to use it.

Are they suitable for seniors (barriers-free)?

It is for seniors with basic digital skills.

How is it promoted to the seniors?

It is not specifically for seniors.

Has the digital app/platform any guide or tutorial to use it?

No.

REN Energia

Creation date and organisation	2017; REN – Redes Energéticas Nacionais (National Energy Networks)
Location	Portugal
Reference links	https://play.google.com/store/apps/details?id=pt.ren.renapp https://apps.apple.com/us/app/ren-energy/id1225154751
Short description	With easy and intuitive navigation, the application provides access to exclusive information on the energy sector in Portugal and on REN's work. The REN Energia app is divided into five sections: My News, Events, Statistics, Opportunities, and an area about the company. Each section will be customizable, according to the topics of greatest interest to each user, allowing the creation of alerts and sharing of content. My News will publish content on the themes of energy, environment, innovation, sustainability and education. It will also be possible for users to send REN original content to be published in this application, making it a participative tool and generating interaction between users. In the Statistics section, all relevant information will be available on the production and consumption of energy, the respective breakdown by type of origin as well as the balance of exports and imports between Portugal and Spain. Easy-to-read and understand graphs, with constantly updated information, making available daily and monthly data, can be easily consulted and shared. In the Events and Opportunities areas, users can closely follow the most important dates for the company and for the sector, creating alerts and keeping abreast of existing employment opportunities at REN. With this application, open to the participation of all, Portugal's energy and everything that makes up the REN world is easily within the users' reach.

What are the competences and learning outcomes related to CE that the user will learn?

You find the latest information on the company and its business, as well as our approach to sustainability, education, innovation and energy. Electricity – Consumption curve, energy balance.

How does this practice address intergenerational connectivity?

With the possibility for users to send REN original content to be published in this application, it makes it a participative tool and generates interaction between users.

What are the needed digital skills or use the digital app/platform?

To know how to use the app and find the information in there.

Are they suitable for seniors (barriers-free)?

It is for seniors with basic digital skills.

How is it promoted to the seniors?

It is not specifically for seniors.

Has the digital app/platform any guide or tutorial to use it?

No.

Recycle bingo

Creation date and organisation	2017; Grupo EGF
Location	Several municipalities in Portugal, from north to south)
Reference links	https://www.recyclebingo.pt/; https://www.recyclebingo.pt/tutorial https://play.google.com/store/apps/details?id=com.djomba.bingoapp2017&pli=1
Short description	With support from the Ministry of the Environment's Environmental Fund, this app wants to get families recycling. How does it do it? Apart from providing information, it proposes a kind of game: every time you go to a recycling point, register on the app and receive points. These points can then be exchanged for EcoMoedas (EcoCoins) which, in turn, are worth prizes. It is available for Android and iOS operating systems.

What are the competences and learning outcomes related to CE that the user will learn?

Information about recycling in a fun way, with a game.

How does this practice address intergenerational connectivity?

It is not specifically for seniors; however, it can be used by the whole family and subsequently, it has potential to promote intergenerational exchanges.

What are the needed digital skills or use the digital app/platform?

To be able to use any application you need basic download and operating knowledge.

Are they suitable for seniors (barriers-free)?

It seems to be for children, but it is also mentioned families. On the other side, to play the game users must have their smartphone's geolocation and mobile data on, things that may be difficult for a senior.

How is it promoted to the seniors?

It is not specifically for seniors.

Has the digital app/platform any guide or tutorial to use it?

Yes: https://www.recyclebingo.pt/tutorial

Wasteapp

Creation date and organisation	2019; IT People – Consultores LDA
Location	Portugal
Reference links	https://play.google.com/store/apps/details?id=com.tandeminnovation.wasteapp ; https://www.wasteapp.pt/home ;
Short description	Did you know that every day each Portuguese produces an average of 1.32 kg of rubbish? Sometimes in that equation, many products are poorly recycled. To help, WasteApp answers you the question: "where can I leave this?" Basically, the app helps you sort your rubbish and find the right destination – near where you are – for a wide range of waste such as coffee capsules, cigarette butts or medicines.
	WasteApp arises from the need to inform the citizen of the destinations of various wastes that cannot be placed in the ecopoints. Quercus (National association for Nature Conservation is an NGO in Portugal) receives daily requests about the destination of various types of waste. The Wasteapp indicates the nearest place where you can put it for reuse and recycling. They want to gather as many destinations as possible in Portugal.

What are the competences and learning outcomes related to CE that the user will learn?

The user will learn how to sort a variety of waste that are not for the ecopoints.

How does this practice address intergenerational connectivity?

It can be a way to promote interconnectivity between generations. The information given about different kinds of waste, gives knowledge and, at the same time, more competencies related to circular economy.

What are the needed digital skills or use the digital app/platform?

People need to go to https://www.wasteapp.pt/home and then explore it. They can also go to the play store on their mobiles, and download the App at https://play.google.com/store/apps/details?id=com.tandeminnovation.wasteapp

Are they suitable for seniors (barriers-free)?

It is for seniors with basic digital skills.

How is it promoted to the seniors?

It is not specifically for seniors.

Has the digital app/platform any guide or tutorial to use it?

No.

Quiz Amadora Sustentável

Creation date and organisation	2021; Amadora City Council
Location	Amadora, Lisbon
Reference links	https://play.google.com/store/apps/details?id=pt.afteryou.amadorasustentavel&hl=pt_PT&gl=US
Short description	The Sustainable Amadora Quiz is an online game promoted by Amadora City Council, aimed at promoting awareness of environmental issues among the municipality's community, in the contexts of sustainability and circular economy. It is supported by quizzes that transpose Circular Economy to the context of Resources, Sustainable Production, Sustainable Consumption, Waste and challenges participants to test their knowledge about the city of Amadora. The game is of free access although subject to registration of participants and is available for online access on computer, complemented with a mobile application. It is especially aimed at students of the 2nd and 3rd Cycles of Basic Education, respectively the 5th to 9th year of schooling, but allows the involvement and participation of the whole society.

What are the competences and learning outcomes related to CE that the user will learn?

The user will learn more about circular economy. Although it is aimed at younger people, it can be used by everyone. Technological competencies are also needed.

How does this practice address intergenerational connectivity?

It is not specifically for seniors. However, maybe the seniors could share their knowledge about the city of Amadora with the younger generation, between grandfathers and grandchildren.

What are the needed digital skills or use the digital app/platform?

To be able to use any application you need basic download and operating knowledge.

Are they suitable for seniors (barriers-free)?

It is for seniors with basic digital skills.

How is it promoted to the seniors?

It is not specifically for seniors.

Has the digital app/platform any guide or tutorial to use it?

In the information about the app there is a guide that explains how to play the game.

Spain

Aire (Asistente Inteligente de Reciclaje de Ecoembes)

Creation date and organisation	2018; The Circularlab (Ecoembes)
Location	Several regions of Spain
Reference links	https://www.ecoembes.com/proyectos-destacados/chatbot-aire/
Short description	AIRE stands for Ecoembes' Intelligent Recycling Assistant and that is its main function: to use automatic learning to help the user to recycle. To perform this function, it makes use of AI (artificial intelligence), thus providing immediate interactive information. Within this AI you can find different knowledge related to the recycling of packaging, furniture, household goods, textiles and other types of waste.
	In addition, AIRE works with different technologies such as voice, text and photo recognition to provide the user with a 360-degree treatment for any recycling query. In this way AIRE is able to recognise through a photograph the type of product you want to recycle, AIRE could explain how and where it has to be recycled.

What are the competences and learning outcomes related to CE that the user will learn?

This chatbot was created to answer questions about recycling. Through voice, text and image, it is able to recognise the user's needs and identify the type of waste in order to help the user instantly with the different questions they may have about recycling.

How does this practice address intergenerational connectivity?

It is not specifically for seniors.

What are the needed digital skills or use the digital app/platform?

You need digital skills to be able to download the app, to navigate through it and if needed, speak, text or upload images to the system.

Are they suitable for seniors (barriers-free)?

It is for seniors with basic digital skills.

How is it promoted to the seniors?

It is not specifically for seniors.

Has the digital app/platform any guide or tutorial to use it?

There is a question-and-answer section on the website.

Encantado de comerte

Creation date and organisation	2019; Enrique de Miguel and Adrián Espinosa from Zaragoza and Gabriel Ramas from Madrid
Location	Several regions of Spain
Reference links	https://encantadodecomerte.es/
Short description	Encantado de Comerte is an app for Android and iOs in which lots of food that shops have not managed to sell during the day are published. These lots are published with a minimum 50% discount. How it works is very simple: choose your favourite lot through the app and pick it up at the shop.

What are the competences and learning outcomes related to CE that the user will learn?

You will learn about waste reduction, with maximum utilization. Also, the reduction of plastics and packaging as you will be encouraged to collect the batches with your own bags/ Tupperware, etc. Also, you often acquire the concept of proximity economy because you tend to go for nearby lots, even to places you don't know.

How does this practice address intergenerational connectivity?

It is not specifically for seniors.

What are the needed digital skills or use the digital app/platform?

You need digital skills to be able to download the app, to navigate through it and probably could use navigator to find the shops.

Are they suitable for seniors (barriers-free)?

It is for seniors with basic digital skills.

How is it promoted to the seniors?

It is not specifically for seniors.

Has the digital app/platform any guide or tutorial to use it?

There are videos on YouTube and some information also on the website explaining the use.

Gratix

Creation date and organisation	2019; José María García
Location	Spain
Reference links	https://www.youtube.com/channel/UCJfQaT6jwhfxP32LxL2iZsA https://www.gratix.com//blog/

	https://hazrevista.org/innovacion-social/2019/11/gratix-una-app-espanola-de-economia-colaborativa-planta-cara-al-cyber-monday/
Short description	Gratix offers citizens the possibility to contribute to improving the world by simply giving away what they don't use and asking for what they need, changing their own consumption habits. It is committed to reuse to promote the circular economy and responsible consumption. An app where those things you no longer need can find a second life with someone else who will really use them, and where you can find what you are looking for without having to pay for it, saving money and, at the same time, avoiding wasting resources and generating waste that harms the environment.

What are the competences and learning outcomes related to CE that the user will learn?

In addition to learning about mobile methodology, they will also learn to fight against consumerism and acquire values of solidarity. What Gratix allows is that, through an app, you can give what you don't use to someone who needs it and when you need something, you can ask for it. It is a starting point for another way of consuming that begins with reuse.

How does this practice address intergenerational connectivity?

It is not specifically for seniors.

What are the needed digital skills or use the digital app/platform?

You need digital skills to be able to download the app, to navigate through it and if needed, chat with someone to the exchange.

Are they suitable for seniors (barriers-free)?

It is for seniors with basic digital skills.

How is it promoted to the seniors?

It is not specifically for seniors.

Has the digital app/platform any guide or tutorial to use it?

There is a question-and-answer section on the website. Apart from that, they have a blog and also some videos in YouTube.

RecyclaYA

Creation date and organisation	2019; Carrefour Spain
Location	Spain
Reference links	https://recycl3r.com/carrefour-launches-an-innovative-application-that-promotes-recycling/ ; https://www.reciclaya.app/es/como-funciona
Short description	ReciclaYA is a mobile application unique in the world that allow its customers to receive information on how to properly recycle their product and obtain points for each recycling action. These points can be exchanged afterwards for discounts on their next purchase.

What are the competences and learning outcomes related to CE that the user will learn?

It teaches you to separate waste at home, to be aware of waste generation. It also tells you where you can recycle near your location.

How does this practice address intergenerational connectivity?

It is not specifically for seniors.

What are the needed digital skills or use the digital app/platform?

You need digital skills to be able to download the app, to navigate through it.

Are they suitable for seniors (barriers-free)?

It is for seniors with basic digital skills.

How is it promoted to the seniors?

It is not specifically for seniors.

Has the digital app/platform any guide or tutorial to use it?

There is a question-and-answer section on the website.

Myur!

Creation date and organisation	2020; Manuel Cascudo and Miguel Barreiros
Location	Galicia and other regions of Spain
Reference links	https://www.myur.app/preguntas-frecuentes/
Short description	Galician platform born in October 2020 for users to rent anything. It is aimed at people who want to promote responsible consumption and earn money by giving a second use to objects they no longer use.

What are the competences and learning outcomes related to CE that the user will learn?

Mainly the habit will be learned or acquired that there is no need to be constantly buying and that renting is a good option to save money and to save excess materials.

How does this practice address intergenerational connectivity?

You need digital skills to be able to download the app, to navigate through it and probably to manage the shipment, receipt and return of products.

What are the needed digital skills or use the digital app/platform?

You need digital skills to be able to download the app, to navigate through it.

Are they suitable for seniors (barriers-free)?

It is for seniors with basic digital skills.

How is it promoted to the seniors?

It is not specifically for seniors.

Has the digital app/platform any guide or tutorial to use it?

There is a question-and-answer section on the website. Apart from that, also some videos in YouTube.

Conclusions

- There are not national specific apps or platforms for seniors, so these practices do not address specifically intergenerational connectivity.

- Seniors must have a minimum basic digital skill to use these platforms or apps, such as use ICT devices (specifically smartphones), download apps from marketplaces, create accounts, and bank details and even use maps or geo-localisation.

- Although in some practices there are manuals or information on the website, it is not common. The use of these apps and platforms is more autodidactic.

- These practices are not promoted specifically for seniors and according to the survey and the needs analysis done by SEN4CE in the framework of R3, most seniors don't know these practices.

- Most of the national practices are quite recent (2019-2022 period). In addition, it has been more difficult to find practices applied only at national level that the international ones which are present in several places.

- The main topics covered by the national practices identified are CE awareness, recycling, re-use/second-hand, prevention of waste, local consumption and collaborative economy. In addition, other topics covered by the practices are carpooling, pollution or sustainable transport.

Ideas to draw for SEN4CE project

- Seniors need to be made aware of these applications. But not only in the form of promotion. Make sure they have the basic digital skills to be able to implement the application correctly (download it, use it, pay with it, etc.). For this, some instructions/manuals will be key.

- The benefits of these national apps/platforms are that most of them are in the national languages, and these will allow seniors to use them (as they don't use to speak English).

- Among the platforms to teach them, it will be necessary to select those related to the themes they indicated in the needs analysis: prevention of waste, repairing, reuse, etc.

- Moreover, it will be interesting, in addition to the training material that is being developed in the framework of the project, to use as support the more general applications/platforms available on the market to increase awareness on Circular Economy.

Regional Best practices

Austria

Unverschwendet

Creation date and organisation	2016; Unverschwendet
Location	Wien
Reference links	https://www.unverschwendet.at
Short description	The start-up Unverschwendet from Vienna rescues surplus fruit and vegetables from agriculture and produces sustainable delicatessen from them.

What are the competences and learning outcomes related to CE that the user will learn?

Waste avoidance, use of supposed waste products → smarter product use → Remanufacture

How does this practice address intergenerational connectivity?

It is not specifically for seniors.

What are the needed digital skills or use the digital app/platform?

Ordering online, online payment.

Are they suitable for seniors (barriers-free)?

Online shop (ICT device) or looking out for store(s).

How is it promoted to the seniors?

It is not specifically for seniors.

Has the digital app/platform any guide or tutorial to use it?

No, but an online store: https://www.unverschwendet.at/online-shop

Tim

Creation date and organisation	2017; Holding Graz – Kommunale Dienstleistungen GmbH
Location	Styria (Graz)
Reference links	https://www.tim-oesterreich.at/graz/#
Short description	Tim is an innovative mobility service offered by Holding Graz that complements public transport stops with other mobility services such as car sharing (electric and conventional), rental cars, e-taxi services and bicycle parking, thus encouraging people to start and switch to environmentally friendly mobility.

What are the competences and learning outcomes related to CE that the user will learn?

This offer makes it easier to do without one's own car, because it makes it possible to access a car easily and conveniently when needed. You can also park your e-car at the e-charging station and switch to bus or train. Bicycle parking spaces make it convenient to switch from cycling to public transport.

How does this practice address intergenerational connectivity?

It is not specifically for seniors.

What are the needed digital skills or use the digital app/platform?

Use the Internet, create an account, online payment.

Are they suitable for seniors (barriers-free)?

It is for seniors with basic digital skills.

How is it promoted to the seniors?

It is not specifically for seniors.

Has the digital app/platform any guide or tutorial to use it?

There is a video tutorial: https://youtu.be/dTe5utqRJMk; and a handbook: https://www.tim-oesterreich.at/graz/wp-content/uploads/sites/2/2022/08/tim_handbuch_august-2022_web.pdf

Abfallkompass der Stadt Graz

Creation date and organisation	2019; ITG Informationstechnik Graz GmbH
Location	Styria (Graz)
Reference links	bit.ly/Abfallkompass_iOS bit.ly/Abfallkompass_Android
Short description	The APP answers local questions on the topics of waste separation, disposal and also waste avoidance.

What are the competences and learning outcomes related to CE that the user will learn?

On the one hand, this app is intended to help avoid misdirected waste and, to save costs (only residual waste and organic waste are subject to extra fees depending on the amount to be disposed of or the size of the waste bin).

How does this practice address intergenerational connectivity?

It is not specifically for seniors.

What are the needed digital skills or use the digital app/platform?

App usage – registration– information website.

Are they suitable for seniors (barriers-free)?

It is for seniors with basic digital skills.

How is it promoted to the seniors?

It is not specifically for seniors.

Has the digital app/platform any guide or tutorial to use it?

No. But there is a tutorial video (https://www.youtube.com/watch?v=Ko14pzFx2JQ)

Nachhaltig in Graz

Creation date and organisation	2019-2020; Verein Nachhaltig in Graz
Location	Styria (Graz)
Reference links	https://nachhaltig-in-graz.at/app-nachhaltig-in-graz/
Short description	The website & mobile app makes it possible for all Graz residents to find more sustainable alternatives to conventional offers. Interactive map that connects all sustainable offering,

What are the competences and learning outcomes related to CE that the user will learn?

Eco-friendly businesses, secondhand shops, open bookshelves, milk vending machines, food sharing fair distributors, initiatives, information and events can be found at the touch of a button.

How does this practice address intergenerational connectivity?

It is not specifically for seniors.

What are the needed digital skills or use the digital app/platform?

App and/or website usage (similar to google maps).

Are they suitable for seniors (barriers-free)?

It is for seniors with basic digital skills.

How is it promoted to the seniors?

It is not specifically for seniors.

Has the digital app/platform any guide or tutorial to use it?

No, just a short description: https://nachhaltig-in-graz.at/app-nig/

Widado

widado

Creation date and organisation	2022; RepaNet-Service GmbH
Location	Styria (Graz)
Reference links	https://www.widado.com/
Short description	Online platform with nationwide offer of environmentally friendly, inexpensive, high-quality, second-hand products.

What are the competences and learning outcomes related to CE that the user will learn?

Resource conservation into one's own life. The labor-intensive business models of the circular economy create numerous low-threshold, inclusive jobs in the regions.

How does this practice address intergenerational connectivity?

It is not specifically for seniors.

What are the needed digital skills or use the digital app/platform?

Use the Internet, create an account, online payment.

Are they suitable for seniors (barriers-free)?

It is for seniors with basic digital skills.

How is it promoted to the seniors?

It is not specifically for seniors.

Has the digital app/platform any guide or tutorial to use it?

No, but there is a catalog with filter function.

France

Lulu dans ma rue

LULU :ö: DANS MA RUE

Creation date and organisation	2016; Charles-Edouard Vincent
Location	Paris and Lyon
Reference links	https://paris.luludansmarue.org/qui-sommes-nous/
Short description	Lulu dans ma rue reinvents the neighbourhood concierge service! For every little daily concern (fixing a curtain rod, watering your plants during the vacations, helping you with a move or installing your storage unit), your neighbourhood concierge will find the right people near you.

What are the competences and learning outcomes related to CE that the user will learn?

Asking for help to repair an item instead of throwing it away. Getting closer to your neighbourhood life.

How does this practice address intergenerational connectivity?

It is not specifically for seniors.

What are the needed digital skills or use the digital app/platform?

Knowing how to use an app or an online platform.

Are they suitable for seniors (barriers-free)?

It is barriers-free, as one can also use the phone to ask for a service*.*

How is it promoted to the seniors?

It is not specifically for seniors.

Has the digital app/platform any guide or tutorial to use it?

Yes.

Yego

Creation date and organisation	2016; Yego
Location	Bordeaux, Toulouse, Paris
Reference links	https://www.rideyego.com/how-it-works/paris
Short description	YEGO, a self-service electric scooter rental company, is committed to the environment and to citizens. Its mission is to "provide a sustainable, safe, and environmentally friendly urban electric transportation service for all. Today, YEGO claims more than 500,000 users, and more than 10 million trips made.

What are the competences and learning outcomes related to CE that the user will learn?

Use an electronic transportation.

How does this practice address intergenerational connectivity?

It is not specifically for seniors.

What are the needed digital skills or use the digital app/platform?

To know how to download an app. To know how to buy online.

Are they suitable for seniors (barriers-free)?

It is for seniors with basic digital skills.

How is it promoted to the seniors?

It is not specifically for seniors.

Has the digital app/platform any guide or tutorial to use it?

Yes.

Beno Bono (before Hors Normes)

Creation date and organisation	2020; Beno Bono
Location	Numerous cities in France
Reference links	https://benebono.fr/
Short description	Beno Bono is an organic fruit and vegetable and grocery delivery and pick up service that facilitates access to health products at a lower cost and continues its fight against food waste. It aims to find consumers for organic fruits and vegetables and grocery products refused by traditional distribution channels on the basis of subscription.

What are the competences and learning outcomes related to CE that the user will learn?

Eat more seasonal. Eat local products. Support local agriculture.

How does this practice address intergenerational connectivity?

It is not specifically for seniors.

What are the needed digital skills or use the digital app/platform?

To know how to download an app and use a search engine.

Are they suitable for seniors (barriers-free)?

It is for seniors with basic digital skills.

How is it promoted to the seniors?

It is not specifically for seniors.

Has the digital app/platform any guide or tutorial to use it?

Yes.

Germany

TeilAuto

Creation date and organisation	1992; TeilAuto association
Location	Some German regions
Reference links	https://teilauto.net/
Short description	TeilAuto was founded in 1992 in Halle (Saale) as an ecologically oriented association and is now represented as a car sharing provider in a total of 16 cities in Saxony, Saxony-Anhalt and Thuringia. The company provides its approximately 20,000 users with around 600 shared vehicles ranging from very small cars to vans. TeilAuto focuses on an emission-saving vehicle fleet as well as strengthening a sustainable mobility mix in combination with buses, trains and bicycles.

What are the competences and learning outcomes related to CE that the user will learn?

Be part of a sharing-economy and get used to sustainable mobility.

How does this practice address intergenerational connectivity?

It is not specifically for seniors.

What are the needed digital skills or use the digital app/platform?

Use the app to find a reserve a car.

Are they suitable for seniors (barriers-free)?

It is for seniors with basic digital skills.

How is it promoted to the seniors?

It is not specifically for seniors.

Has the digital app/platform any guide or tutorial to use it?

Yes,

Nebenan

Creation date and organisation	N/A; Good Hood GmbH
Location	Mostly available in bigger towns of Germany
Reference links	https://nebenan.de/
Short description	Nebenan.de is Germany's largest social network for neighbours. Nebenan.de offers you the easiest way to get in touch with people from your immediate neighbourhood: Get to know, help, give away, sell, share. Are you looking for a babysitter? Ask your neighbours & get help from nearby. Experience how valuable an active and well-functioning neighbourhood can be.

What are the competences and learning outcomes related to CE that the user will learn?

Helps to be part of a sharing economy.

How does this practice address intergenerational connectivity?

It is not specifically for seniors.

What are the needed digital skills or use the digital app/platform?

Use and navigate with the app and validate personal data at the beginning.

Are they suitable for seniors (barriers-free)?

It is for seniors with basic digital skills.

How is it promoted to the seniors?

It is not specifically for seniors.

Has the digital app/platform any guide or tutorial to use it?

Explanation on website but needs registration and validation.

Regio app

Creation date and organisation	N/A; Bundesverband der Regionalbewegung e.V.
Location	Germany
Reference links	https://www.regioapp.org/
Short description	With the Regio App, you can easily and conveniently find regional food and groceries, as well as restaurants, weekly markets and flower shops in your area. In addition, you will receive information about opening hours, organic labels and the fastest way to get the shop. This way, regional business can be better supported.

What are the competences and learning outcomes related to CE that the user will learn?

Assists to by local, regional and support these producers.

How does this practice address intergenerational connectivity?

It is not specifically for seniors.

What are the needed digital skills or use the digital app/platform?

Use and navigate with the app.

Are they suitable for seniors (barriers-free)?

It is for seniors with basic digital skills.

How is it promoted to the seniors?

It is not specifically for seniors.

Has the digital app/platform any guide or tutorial to use it?

Simple overview within the app.

Portugal

Agenda 21 da Criança online

Creation date and organisation	2004; IT People – We Are Phenix
Location	Almada, Lisbon
Reference links	www.m-almada.pt/ambiente; https://agenda21crianca.cm-almada.pt/pt/
hort description	Children's Agenda 21 online is the name of the recently launched digital platform of the municipality of Almada that aims at helping young people learn more about the environment. The portal continues a previous project of the municipality and provides various resources for environmental education, also made by children.
	The platform makes available for download informative and pedagogical manuals on themes such as composting, waste, astronomy, biodiversity, forest or marine litter. Furthermore, there is a virtual workshop space, where children can learn, step by step, how to make objects such as eco-lamps or nest boxes.
	Children's ideas and proposals are presented to the highest representatives of Almada's local government at the Fórum 21 da Criança, the Parliament of the Little Members of Parliament. Whenever possible they are then integrated into the municipality's activity plans.

What are the competences and learning outcomes related to CE that the user will learn?

Composting, waste, astronomy, biodiversity, forest or marine litter.

How does this practice address intergenerational connectivity?

It was made for children, but they can share the knowledge with their family members.

What are the needed digital skills or use the digital app/platform?

Basic technological skills, a computer and Internet connection.

Are they suitable for seniors (barriers-free)?

Because they were created for children, the content is simple to understand, so it also can be for seniors. It has a lot of images drawn by children to complement the environmental information.

How is it promoted to the seniors?

It is not specifically for seniors.

Has the digital app/platform any guide or tutorial to use it?

No.

Spain

Ilbilkari

Creation date and organisation	2009; Eusko Car Sharing Elkartea
Location	Basque Country
Reference links	https://www.ibilkari.com/como-funciona.php
Short description	IBILKARI is a practical, efficient and economical alternative for many people, companies and municipalities. A PERFECT OPTION FOR PEOPLE who use their vehicle occasionally (less than 12,000 km per year). A PARTNER FOR PROFESSIONALS AND COMPANIES seeking to optimise their travel options. A POSITIVE PRACTICE FOR MUNICIPALITIES working for the city of tomorrow, without neglecting the challenges of today.

What are the competences and learning outcomes related to CE that the user will learn?

They learn the concept of sharing resources, a key element in the circular economy. In addition, you learn indirectly to favor cleaner cities, with less smoke and less need for parking in public spaces. They also learn to reduce costs while being sustainable.

![SEN4CE - Seniors for Circular Economy]

Co-funded by the
Erasmus+ Programme
of the European Union

How does this practice address intergenerational connectivity?

It is not specifically for seniors.

What are the needed digital skills or use the digital app/platform?

You need digital skills to be able to register with Ibilkari and then to have the mobile app and manage the whole process (although you can also book by phone).

Are they suitable for seniors (barriers-free)?

It is for seniors with basic digital skills.

How is it promoted to the seniors?

It is not specifically for seniors.

Has the digital app/platform any guide or tutorial to use it?

Yes, there is a user manual.

¿Residu, on vas?

Creation date and organisation	2013; Waste Agency of Catalonia
Location	Catalunya
Reference links	https://residus.gencat.cat/es/ambits_dactuacio/sensibilitzacio/einesdigitals/residuonvas/ https://www.residuonvas.cat/ca
Short description	The Waste app and the residuonvas.cat website provide visual information on where to dispose of each type of waste to recycle it correctly. By doing so, the recycling process is optimized and the environment is improved.

What are the competences and learning outcomes related to CE that the user will learn?

You learn about waste, how to recycle each waste, optimise your recycling process and treat the environment better. Also, to be aware of the savings that recycling mail can bring.

How does this practice address intergenerational connectivity?

It is not specifically for seniors.

What are the needed digital skills or use the digital app/platform?

You need digital skills to be able to download the app, to navigate through, etc.

Are they suitable for seniors (barriers-free)?

It is for seniors with basic digital skills.

How is it promoted to the seniors?

It is not specifically for seniors.

Has the digital app/platform any guide or tutorial to use it?

No.

Reto Recicla

Creation date and organisation	2017; Murcia Town Hall and Ferrovial Servicios
Location	Murcia's Region
Reference links	https://www.murcia.com/noticias/2017/11/27-una-moderna-aplicacion-movil-facilitara-a-los-murcianos-el-reciclaje-de-los-residuos-domesticos.asp
Short description	The aim is to encourage and help Murcians to recycle. Thus, it includes all the information that citizens may need about waste collection in the municipality and care for the environment. Through an interactive menu
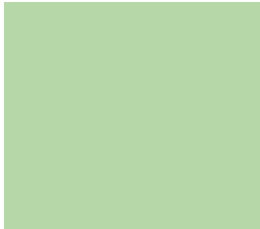
you can access different utilities such as the recycling converter, the 3 R's, where to recycle, ecopoint or the game Retorecicla.

What are the competences and learning outcomes related to CE that the user will learn?

You will learn about recycling, waste collection and also environment preservation.

How does this practice address intergenerational connectivity?

It is not specifically for seniors.

What are the needed digital skills or use the digital app/platform?

You need digital skills to be able to download the app, to navigate through, etc.

Are they suitable for seniors (barriers-free)?

It is for seniors with basic digital skills.

How is it promoted to the seniors?

It is not specifically for seniors.

Has the digital app/platform any guide or tutorial to use it?

No.

Reciclos

Creation date and organisation	2019; The Circular Lab + Ecoembes
Location	Catalunya
Reference links	https://www.reciclos.com/
Short description	The aim of RECICLOS is to evolve the packaging recycling model that has been operating for 20 years through the yellow bin, thanks to mobile technology and green incentives. RECICLOS seeks an evolution of the recycling habit through recognition. Every time citizens throw their cans and beverage bottles in the yellow bin and register it through the RECICLOS system… they win and make the environment.

What are the competences and learning outcomes related to CE that the user will learn?

Recycling, helping the environment.

How does this practice address intergenerational connectivity?

It is not specifically for seniors.

What are the needed digital skills or use the digital app/platform?

Using RECICLOS is very simple: all you must do is register on the webapp and scan the barcode on the can or plastic drink bottle you want to recycle before throwing it in the bin you have at home. Once in the street, the container must be deposited in the yellow bin, along with the rest of the packaging to be recycled and scan the QR code on it.

Are they suitable for seniors (barriers-free)?

It is for seniors with basic digital skills.

How is it promoted to the seniors?

It is not specifically for seniors.

Has the digital app/platform any guide or tutorial to use it?

They have some infographic and some videos as well.

Madrid te acompaña

Creation date and organisation	2021; Madrid Town Hall
Location	Madrid's rego
Reference links	https://autelsinsights.es/madrid-te-acompana-una-app-para-conectar-a-personas-mayores-y-voluntariado-en-la-ciudad-de-madridpremio-compromiso-social-y-medioambiental2022/;

https://www.madrid.es/portales/munimadrid/es/Inicio/El-Ayuntamiento/Oficina-Digital/Destacados/Madrid-te-Acompana/Madrid-te-Acompana/?vgnextfmt=default&vgnextoid=8fcde3acb4fbe710VgnVCM1000001d4a900aRCRD&vgnextchannel=ef2047dadf9be710VgnVCM2000001f4a900aRCRD |
| *Short description* | Through a simple mobile application developed by Microsoft and the IAM, any elderly person can request the company of a volunteer from the Madrid City Council's municipal volunteer programme "Volunteers for Madrid" to accompany them to the doctor, to go shopping, for a walk, to the cinema or theatre or to any other leisure activity, to carry out administrative procedures, to accompany them to hospitals, to accompany them to take their pets out... |

What are the competences and learning outcomes related to CE that the user will learn?

It fosters cross-cutting Circular Economy skills such as cooperation and intergenerational support.

How does this practice address intergenerational connectivity?

It is an application designed primarily for the over 65s, so it has an integrated technology, and a friendly and easy to understand user interface.

What are the needed digital skills or use the digital app/platform?

You need digital skills to be able to register in the platform and use it.

Are they suitable for seniors (barriers-free)?

It is for seniors with basic digital skills.

How is it promoted to the seniors?

It is not specifically for seniors.

Has the digital app/platform any guide or tutorial to use it?

N/A

Conclusions

- It has been identified only one regional platform (in Madrid, Spain) which addresses specifically intergenerational connectivity. It is not related directly with Circular Economy issues, but it fosters cross-cutting Circular Economy skills such as cooperation and intergenerational support.

- Seniors must have a minimum basic digital skill to use these platforms or apps, such as use ICT devices (specifically smartphones), download apps from marketplaces, create accounts, and bank details and even use maps or geo-localisation.

- Although in some practices there are manuals or information on the website, it is not common. The use of these apps and platforms is more autodidactic.

- These practices are not promoted specifically for seniors and according to the survey and the needs analysis done by SEN4CE in the framework of R3, most seniors don't know these practices.

- The main topics covered by the identified best practices are CE awareness, recycling, re-use/second-hand, transport and carpooling. In addition, other topics covered by the practices is repairing among others.

Ideas to draw for SEN4CE project

- Seniors need to be made aware of these applications. But not only in the form of promotion. Make sure they have the basic digital skills to be able to implement the application correctly (download it, use it, pay with it, etc.). For this, some instructions/manuals will be key.

- One of the main benefits of these regional apps/platforms are that they are available in the different national languages, and these will allow seniors to use them (as they don't use to speak English).

Among the platforms to teach them, it will be necessary to select those related to the themes they indicated in the needs analysis: awareness, reuse, etc.

Moreover, it will be interesting, in addition to the training material that is being developed in the framework of the project, to use as support the more general applications/platforms available on the market to increase awareness on Circular Economy.

Final conclusions for the SEN4CE project

To sum up, we concluded that there are no existing website, applications or platforms related to circular economy designed specifically for seniors. However, there are several practices which address the inspirational and motivational aspects of adapting the circular economy practices in day-to-day life, for example, second-hands applications, educational applications for recycling, etc.

Based on the surveys conducted with seniors in the framework of this PR3, they want and are eager to learn new tools and platforms that help them to take a step further in the Circular Economy, but they are not aware of them. Therefore, the SEN4CE Consortium has a freedom and a duty, to develop an online study program that open doors to all these online platforms and applications, which are, in turn, free of charge.

Although in some practices there are manuals or information on the website, it is not common. The use of these apps and platforms is more autodidactic. Hence, it will be necessary not only to explain the subject matter or purpose of the application but also what steps they need to follow to use it.

Among the platforms to teach them, it will be necessary to select those related to the themes they indicated in the needs analysis: awareness, reuse, etc. Moreover, it will be interesting, in addition to the training material that is being developed in the framework of the project, to use as support the more general applications/platforms available on the market to increase awareness on Circular Economy.