



Challenges of the circular transition

EU competitiveness and

the banking sector

LJUBLJANA, 11th DECEMBER 2019



CIRCULARBUSINESS O ACADEMY

$Gm^{|\mathsf{partners}}_{\mathsf{in change}}$

The intent of this document is to present the purpose, formats and stakeholder context of the Circular business Academy to atendees, aspiring partners and clients.

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Sustainability and the circular transition







Challenging questions

- How does the transition to the circular economy contribute to the overall societal crisis of climate and resources?
 - a) Characteristics of the circular transition
 - b) Refrences to the regulatory framework

• Challenges and opportunities in for the banking sector overall

- a) Anticipate changes in regulation and self-regulation
- b) Focus on clients' business models: in search for a proof client assessment
- c) Understanding linear and circular risks
- d) Understanding risk along value chains
- e) Monitoring companies and the evolution of their potential
- f) Understanding the broader range of financial options

O Here is why the CBA





What is the circular economy?



"Looking beyond the current "take, make and dispose" extractive industrial model, the circular economy is restorative and regenerative by design. Relying on system-wide innovation, it aims to redefine products and services to design waste out, while minimising negative impacts. Underpinned by a transition to renewable energy sources, the circular model builds economic, natural and social capital." Ellen MacArthur Foundation

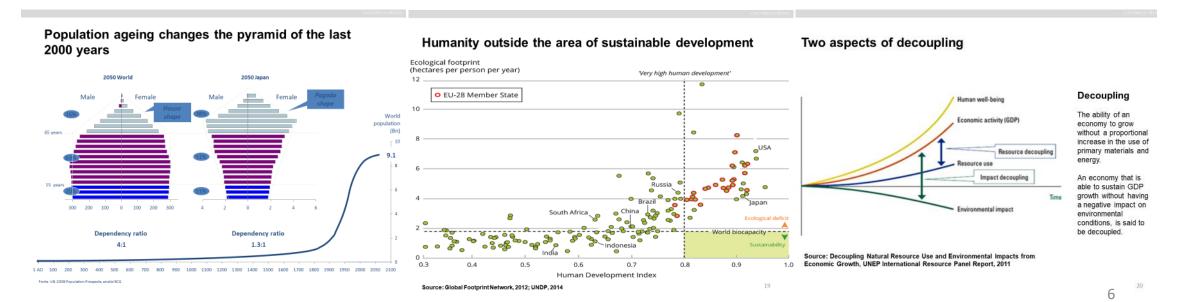


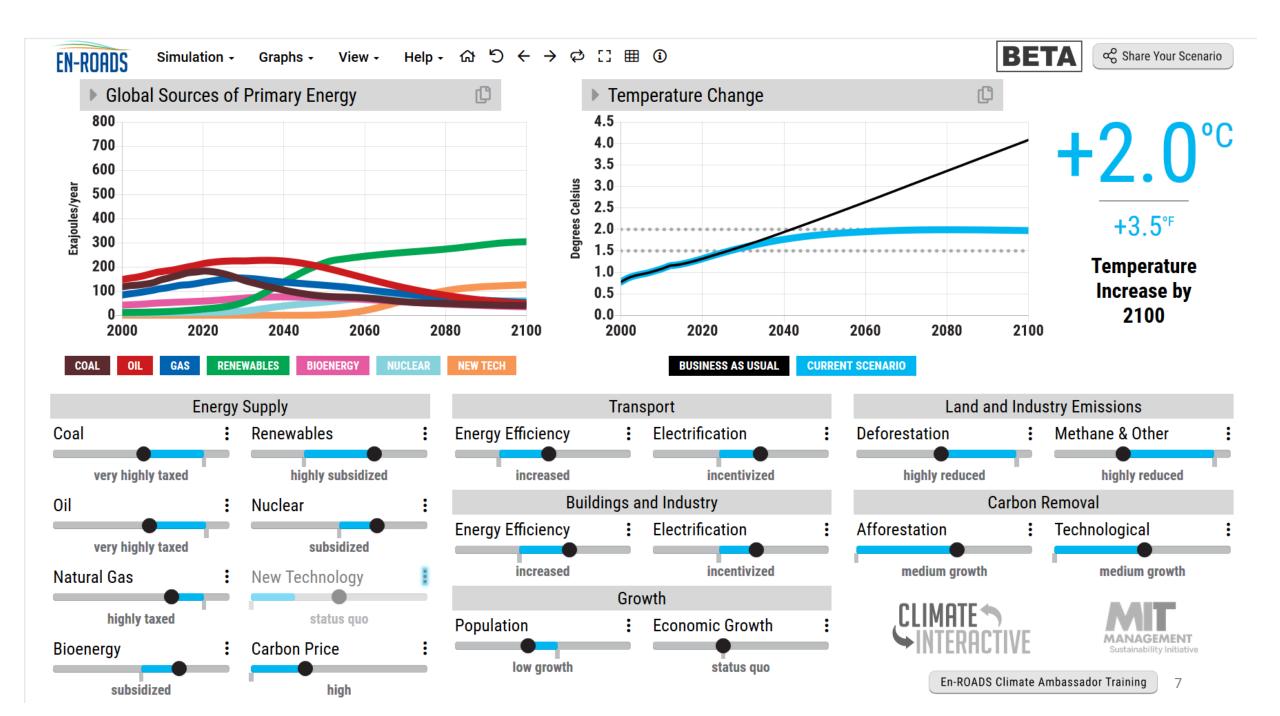


How does the transition to the circular economy contribute to the overall societal crisis of climate and resources?

It is scientifically proven that we can not ensure a sustainable future of humanity at the forcast population and economy growth at the present level of exhaustion of natural resources (at the present techology matrix and the aggregate production function).

We need to substantially innovate in order to assure welbeing for our and future generations.







DNEVI PRILOŽNOSTI

A half of the overall contribution to reduce the CO2 emissions should derive from the circular economy.



But the world in 2019 is only 9% circular.

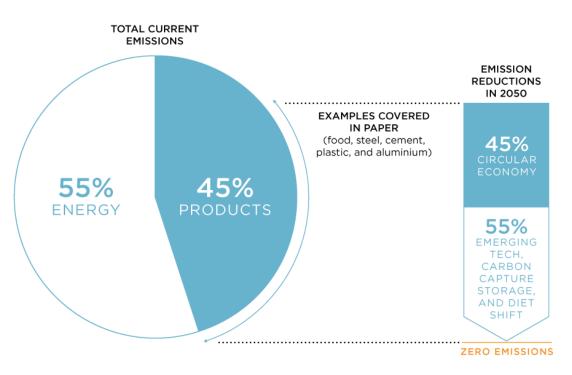
The Circularity Gap Report 2019 finds that the global economy is only 9% circular: just 9% of the 92.8 billion tonnes of minerals, fossil fuels, metals and biomass that enter the economy are reused annually.

Climate change and material use are closely linked. Circle Economy calculates that 62% of global greenhouse gas emissions (excluding those from land use and forestry) are released during the extraction, processing and manufacturing of goods to serve society's needs; only 38% are emitted in the delivery and use of products and services.

Yet global use of materials is accelerating. It has more than tripled since 1970 and could double again by 2050without action, according to the UN International Resource Panel. Circle Economy's CEO, Harald Friedl, said: "A 1.5 degree world can only be a circular world. Recycling, greater resource efficiency and circular business models offer huge scope to reduce emissions. A systemic approach to applying these strategies would tip the balance in the battle against global warming.



COMPLETING THE PICTURE: TACKLING THE OVERLOOKED EMISSIONS



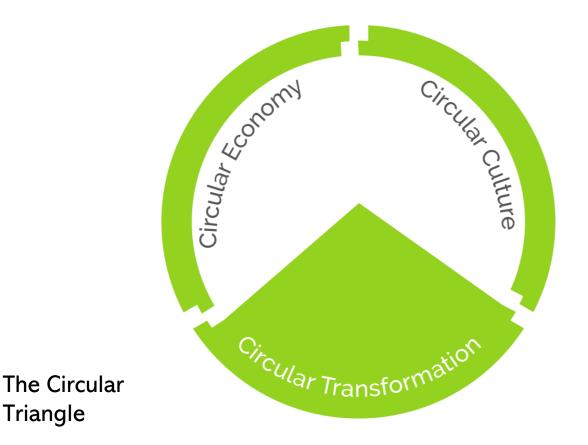
Underpinned by a transition towards renewable energy, a circular economy can help tackle the overlooked 45% of emissions by transforming the way goods are made and used.



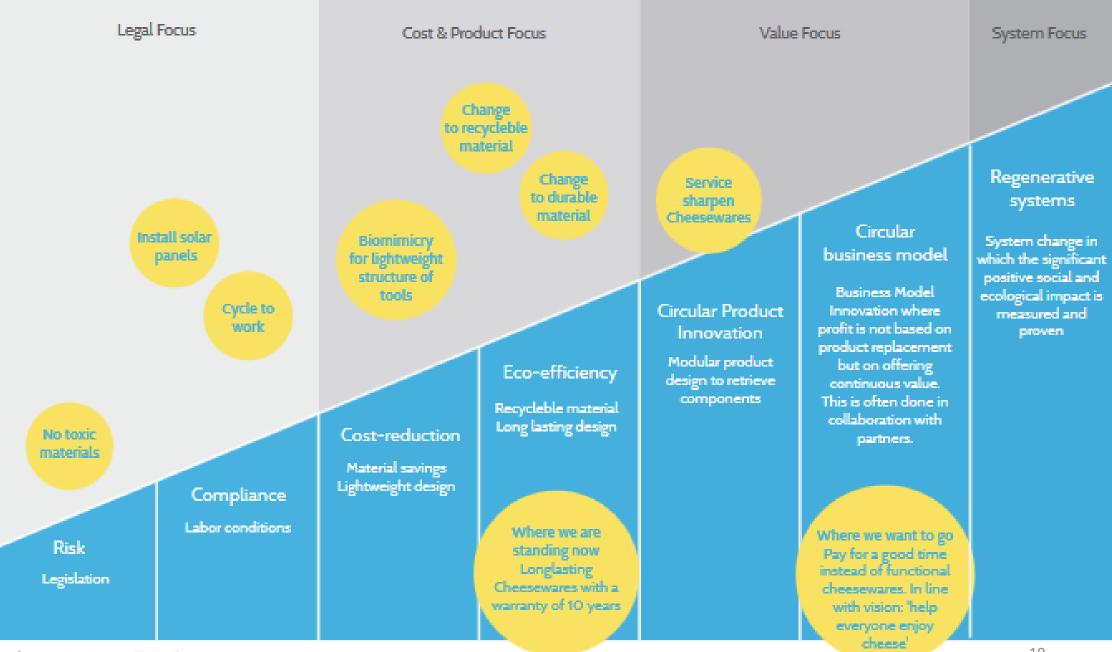




Characteristics of the circular transition



- O An evolutiornary process
- A multi-level economy- business- and societal transformation
- Innovation is imperative
- Innovation is embedded into the sustainability mindset:
 - Absolute limitations of resources
 - Rethinking of the business purpose
- End of growth: welbeing (welfare) comes before growth



Source: Innoboost, TU Delft





Regulatory framework: global governance in the making

UN SDGs

On September 25th 2015, countries adopted a set of goals to end poverty, protect the planet, and ensure prosperity for all as part of a new sustainable development agenda. Each goal has specific targets to be achieved over the next 15 years.

http://www.un.org/ sustainabledevelop ment/sustainabledevelopmentgoals/

United Nations Framework Convention on Climate Change, 1994

The UNFCCC, later "The Rio Convention" entered into force on 21 March **1994**. 197 countries have ratified the Convention.

Kyoto Protocol, 1997

The Kyoto Protocol is an international agreement linked to the United Nations Framework Convention on Climate Change, which commits its Parties by setting internationally binding emission reduction targets.

Paris Agreement 2015

The Paris Agreement builds upon the Convention and for the first time brings all nations into a common cause to undertake ambitious efforts to combat climate change and adapt to its effects, with enhanced support to assist developing countries to do so. As such, it charts a new course in the global climate effort.

The Paris Agreement central aim is to strengthen the global response to the threat of climate change by keeping a global temperature rise this century well below 2 degrees Celsius above pre-industrial levels and to pursue efforts to limit the temperature increase even further to 1.5 degrees Celsius. The Paris Agreement requires all Parties to put forward their best efforts through nationally determined contributions (NDCs).

The UN Climate Change Conference -**COP 25** Madrid 2 to 13 December 2019 Countries negotiate more ambitious plans to limit global warming to 1.5°C, in line with the Paris Agreement. https://unclimatesu mmit.org/?gclid=Ci wKCAiA27LvBRBO EiwAPc8XWTM Hi DXIv76iMkPW5NPf ZnktgnTVRCGytyvnPda1lKDbp9r7 gYxoCOyMQAvD B wE





Regulatory framework: EU taking the lead

• European Commission:

- Autumn 14: First CE package proposed
- Dec 2015: First CE package adopted
- Jan 2017: Second CE package
- Dec 2019: EU Geen Deal proposed

Sustainability finance

• Financing Instruments

Junker Plan – EFSI

EIB

R&D: H2020

 Slovenia, environmental sustainability and the circular transition





Changing role of the banking sector

- A broader understanding of risk
- Responsible financing
- O Bank as a Circular Enabler
- Bank as a market maker
- Bank as a responsible warrant





Challenges and opportunities in for the banking sector

- Anticipate changes in **regulatory environment and self-regulation** both in banking and in the real sector
- **Focus on clients' business models**: in search for a proof client assessment
- O Broaden the understanding of linear and circular risks and understanding business (linear, circular) risks along clients' value chains
- Assessing the level of sustainability in cilents' strategies
- O Monitoring companies and the evolution of their circular (innovation) potential
- New services development: understanding the broader range of financing options for clients' circular transformation





Here is why the CBA

- O Assist managers to master business transformations of from linar to circular;
- Offer support to entrenreneurs in the development of circular businesses and seize their circular potential;
- O Develop **competencies and skills** needed to embrace circular business models and support implementation;
- Facilitate investment decisions into sustainable business and facilitate financing of sustainable projects;
- O Promote best practices and develop learning tools.



Tailored professional training programmes, enabling enterpreneurs, managers and policy-makers to embrace circular business model innovation.

Formats

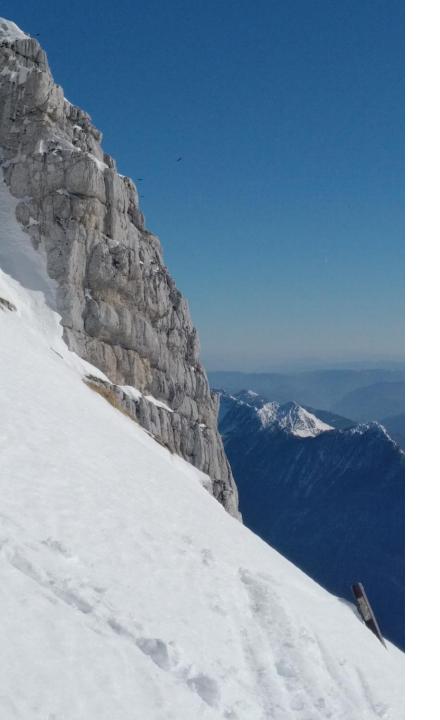
- **O** CIRCULAR OPPORTUNITY DAYS
- **GINERATING FULL-TRACK CBA**
- IN-COMPANY INITIATION PROGRAMMES
- O ADVISORY AND MENTORSHIP
- CIRCULAR SCALEUP MODULE (INVESTMENT READINESS)
- **O** FINANCING FACILITATION



Clients and partnerships

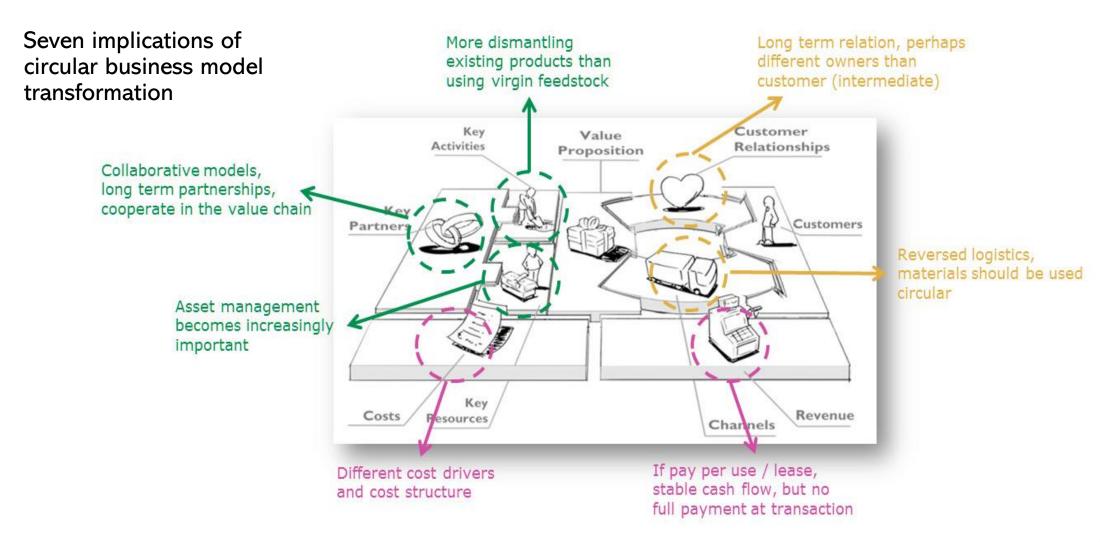


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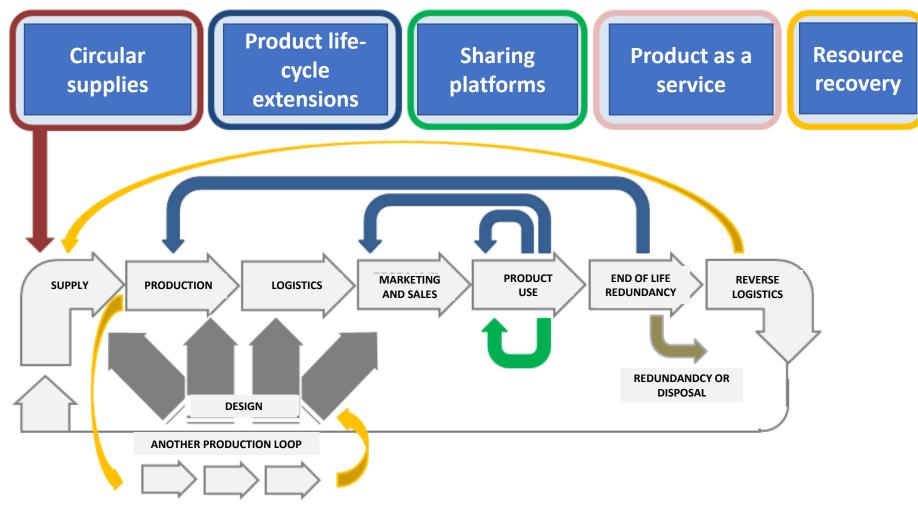


How can we support entrepreneurs, investors, facilitators and financial intermediaries to accelerate the circular trasition and do good business?

I. Focus on business models

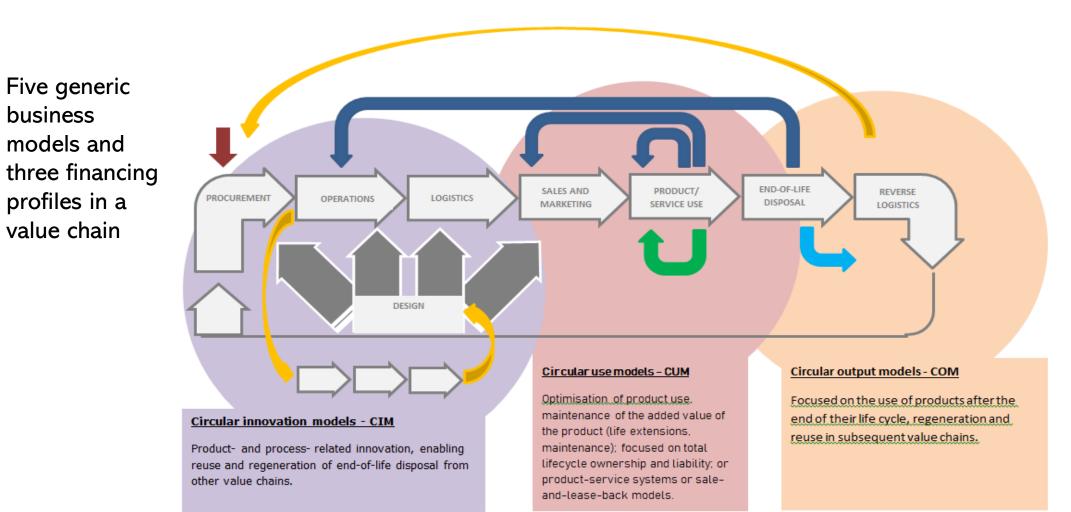


2. Understanding opportunities of circularity along the value chain



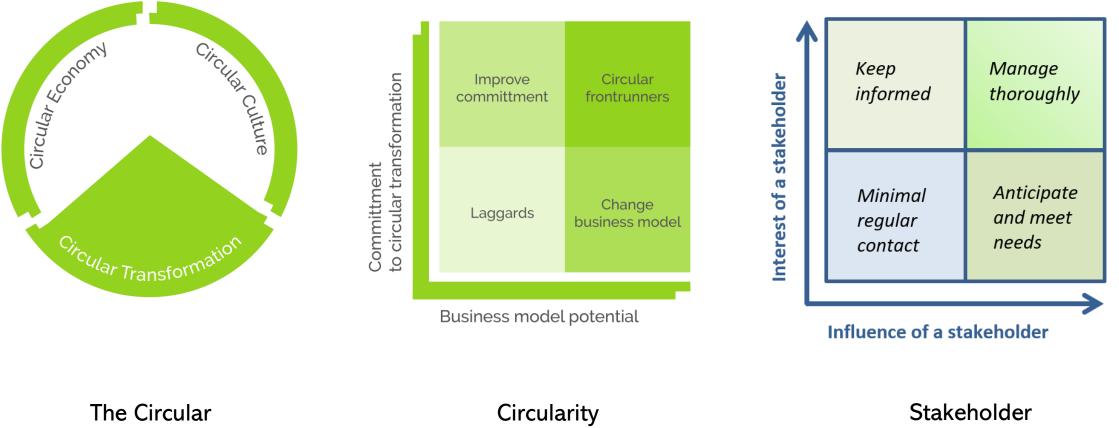
Adapted by Circular Advantage, Accenture, 2014

3. Understanding the typlogy of linear and circular risks in a circular transformation process





Tools and methods

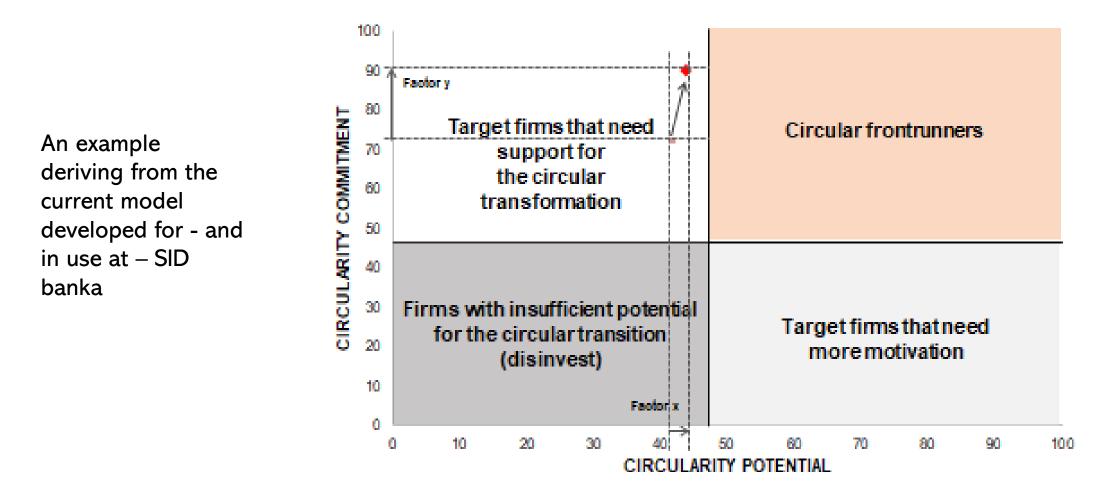


Triangle

Assessment

mapping grid

Circularity assessment matrix representing a hypothetical example



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Tools and methods



META Challengebased innovation platform

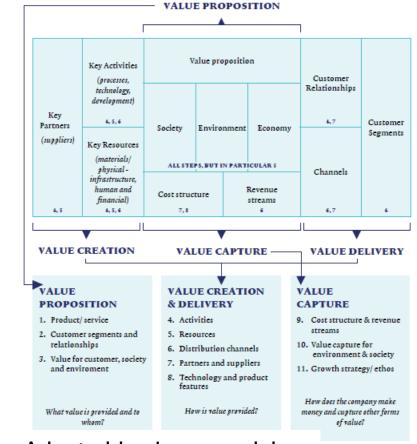


META PI Booster and Investmentreadiness tools

Evaluate and learn between every step SCALING-UP FROM **PILOT TO CIRCULAR** BUSINESS TOWARDS A CIRCULAR BUSINESS THE SYSTEM USINESS MODEL

10-step circular transformation journey

Source: "Circular Business, Collaborate and Ciirculate, by Bocken, Kraaijenhagen, Van Oppen (2016)



Adapted business model canvas

Figure 9.1 Conceptual sustainable business model framework. Source: Bocken and Short (2016), adapted from Richardson (2008) and Osterwalder and Pigneur (2005), Bocken et al. (2014) and Short et al. (2014)

Circular expert practitioners

We can do it together. Welcome to apply and get selected into the initial class..!

You will:

Be **publicly promoted** as a selected expert on the CBA web site.

Commit to promote the Academy's programme, share knowledge and contribute to its development

Attend two seminars or programmes per year as an active "expert" (speaker, discussant, working group leaders or facilitator or as a mentor.

Undertake other expert roles at your own initiative:

- Develop research survery
- Propose, prepare and implement your own **formats** and **case studies**

We will prepare update and support:

- (1) competence guidelines
- (2) dedicated seminars and
- (3) knowledge exchange meetups

... to make our knowledge grow.

First seminar to be scheduled for January 2020.

We will foster the network, commit to and maintain clear criteria to be a part of the Circular expert practitioners.

CB Investor Network

Intended to support firms pursuing circular transformations and sustainable growth strategies across the EU with the focus on the Alpine and Adriatic-Ionian EU macro-regions.

Intended to:

Support growth of innovative startups and scaleups (SMEs and small caps) with a high growth potential and the capability to transit towards sustainable and circular business models, bv economy the thriving fundamental on dynamics of the circular transformation

Geographic focus: EU, focus on the Alpine or Adriatic-Ionian EU macroregions

By:

 Target selection process of potential investees by Screening Sustainability evaluation Circularity assessment Advisory



- ... through the CBA programmes.
- Advising on active investment readiness and partnerships monitoring, challenging, supporting and supervisint the invested companies
- Fund Raising





Next appointments

8TH NOVEMBER:	Challenges of the circular transformation, The Case of Skaza
21ST NOVEMBER:	Investing into circular business
11TH DECEMBER:	Sustainable financing and circular business models
JANUARY 2020:	Expert practitioners seminar
MARCH - JUNE 2020:	Full Track CBA
SPRING 2020:	Circular scaleup modules (tbd) Circular opportunity days (Topics: Investing; Circular cities; Food value chain; Open BM Transformation workshop;)
AUTUMN 2020:	Second Sutainability Financing and Circular Investing Conference with ZBS

CIRCULAR BUSINESS ACADEMY

Tailored professional training programmes, enabling enterpreneurs, managers and policymakers to embrace circular business model innovation

Register now Opportunity clays – Dnevi priložnosti "The Challenges of Circular Transformation" Ljubljana, B November 2019

www.circularbusiness.academy