


Tolerance, Sustainability & Circularity

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R·I·T
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The background of the slide features a close-up, high-resolution image of a leaf's surface. The veins are a vibrant yellow-green color, creating a complex, branching network against a lighter green background. The overall effect is organic and textured.

In this workshop, we will discuss tolerance, sustainability and circular design principles, to kickstart your projects for the Madar competition

Your challenge!

Identify challenges around you, which can be improved, and start proposing opportunities to develop your projects!

Our Aims today!

Start using some of the tools for Sustainability and Circularity, to brainstorm about your project!

Think how **Tolerance Values** will guide us!

Assemble your teams, minimum 3 members.



What is Tolerance?

Tolerance

Willingness to [respect and] accept feelings, habits, or beliefs that are different from your own.

Source: Encyclopedia Britannica.



A living embodiment of the teachings of true Islam



An essential tool for achieving a comprehensive and sustainable development

Tolerance in UAE

Tolerance

Coexistence! Living in peace!
An essential tool for achieving sustainable
development.

Tolerance

Coexistence! Living in peace!
Is it only about People?

How about Tolerance (coexistence, living in peace) with all forms of life in our planet?

The background of the slide is a close-up photograph of a leaf. The leaf's surface is covered in a dense network of small, irregular cells, creating a textured, honeycomb-like pattern. A prominent, thick, yellowish-green vein runs diagonally from the top left towards the bottom right, intersecting the cellular pattern. The overall color palette is a mix of light and dark greens, with the vein providing a contrasting yellowish-green hue.

Tolerance, Sustainability & Circularity

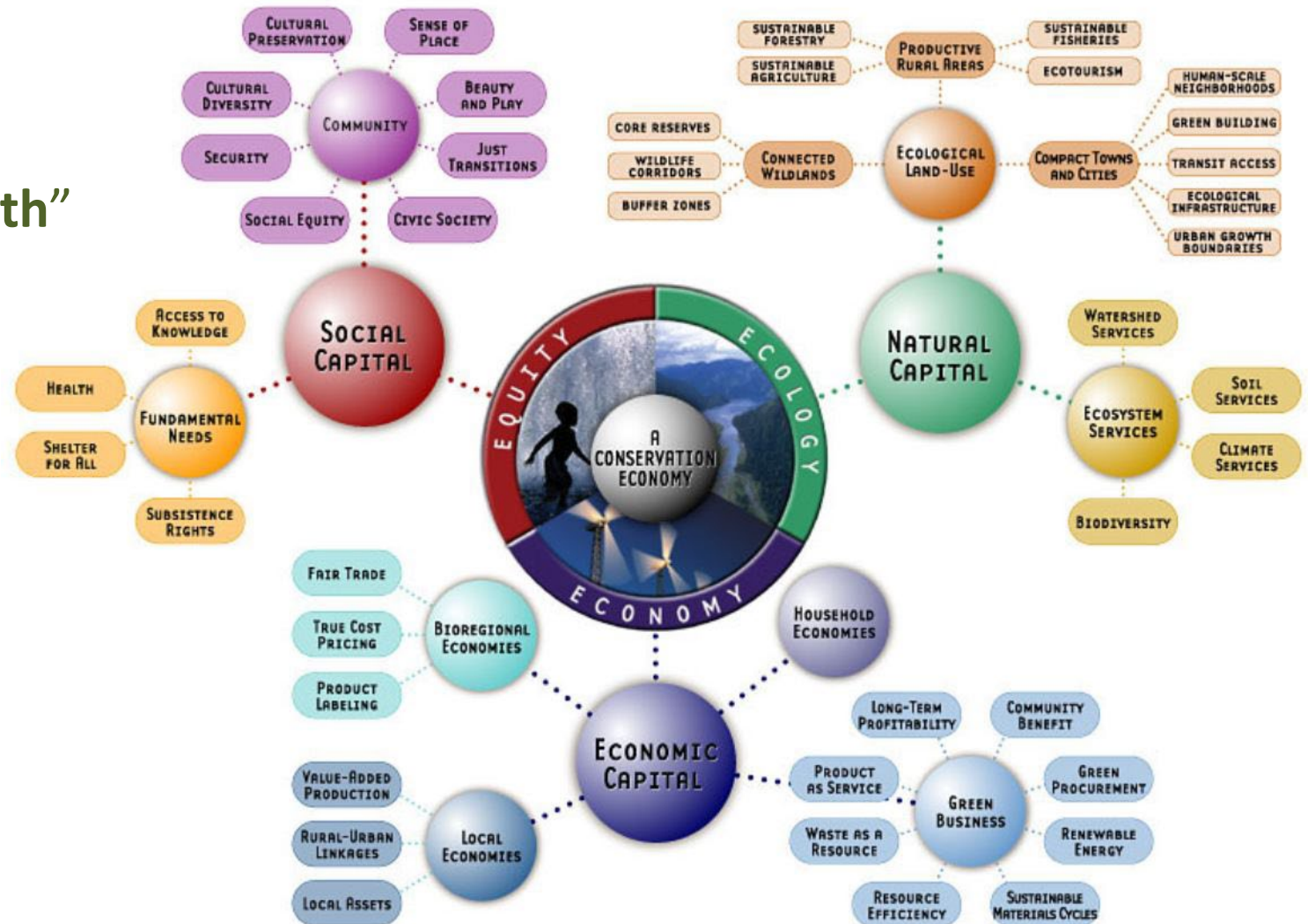
Sustain + ability

“The ability to sustain life in Earth”

Described as the 3 pillars:

3 E's : Equity, Ecology, Economy

3 P's : People, Planet, Profit.



Sustainable Development

The UAE portal for the Sustainable Development Goals

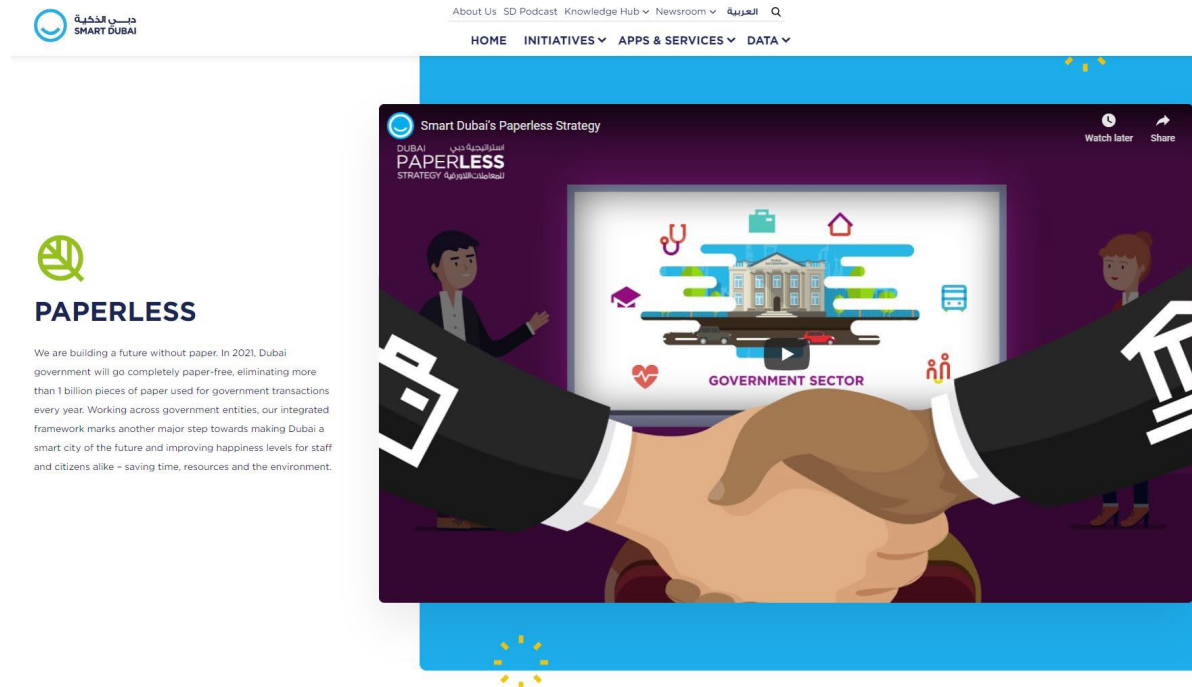


Development that meets the needs of the present generation without compromising the ability of future generations to meet their needs.

Bruntland Report



Sustainable digital service design examples in UAE



STRATEGY

"DUBAI GOVERNMENT WILL ISSUE ITS LAST PAPER TRANSACTION IN 2021, WE'VE INSTRUCTED SMART DUBAI OFFICE TO OVERSEE THIS GOAL" - His Highness Sheikh Hamdan Bin Mohammed Al Maktoum during Smart Dubai's Future Now Event, April 16 2017

As a fully paperless government, 100% of internal processes and customer facing services will be digitized from 2021. That means government will no longer issue or ask for paper documents across all of its operations.

<https://www.smartdubai.ae/initiatives/paperless>

Apps and digitalized services can reduce the waste of materials, such as paper.

Sustainability considerations can also include energy efficiency in apps and websites, among others

Sustainable digital service design examples in UAE

Apps and services can help modify behaviours.

Better use of resources, reduction of electricity and water usage, energy efficiency.



Sustainable design examples in UAE

DUBAI SUSTAINABLE CITY



ENERGY

WATER

WASTE

AIR QUALITY

PLANTS

ANIMALS

•http://en.envirocitiesmag.com/articles/sustainable_investment_for_greener_future/dubai_sustainable_city_shaping_future_cities.php

Sustainable design examples in UAE

MASDAR CITY

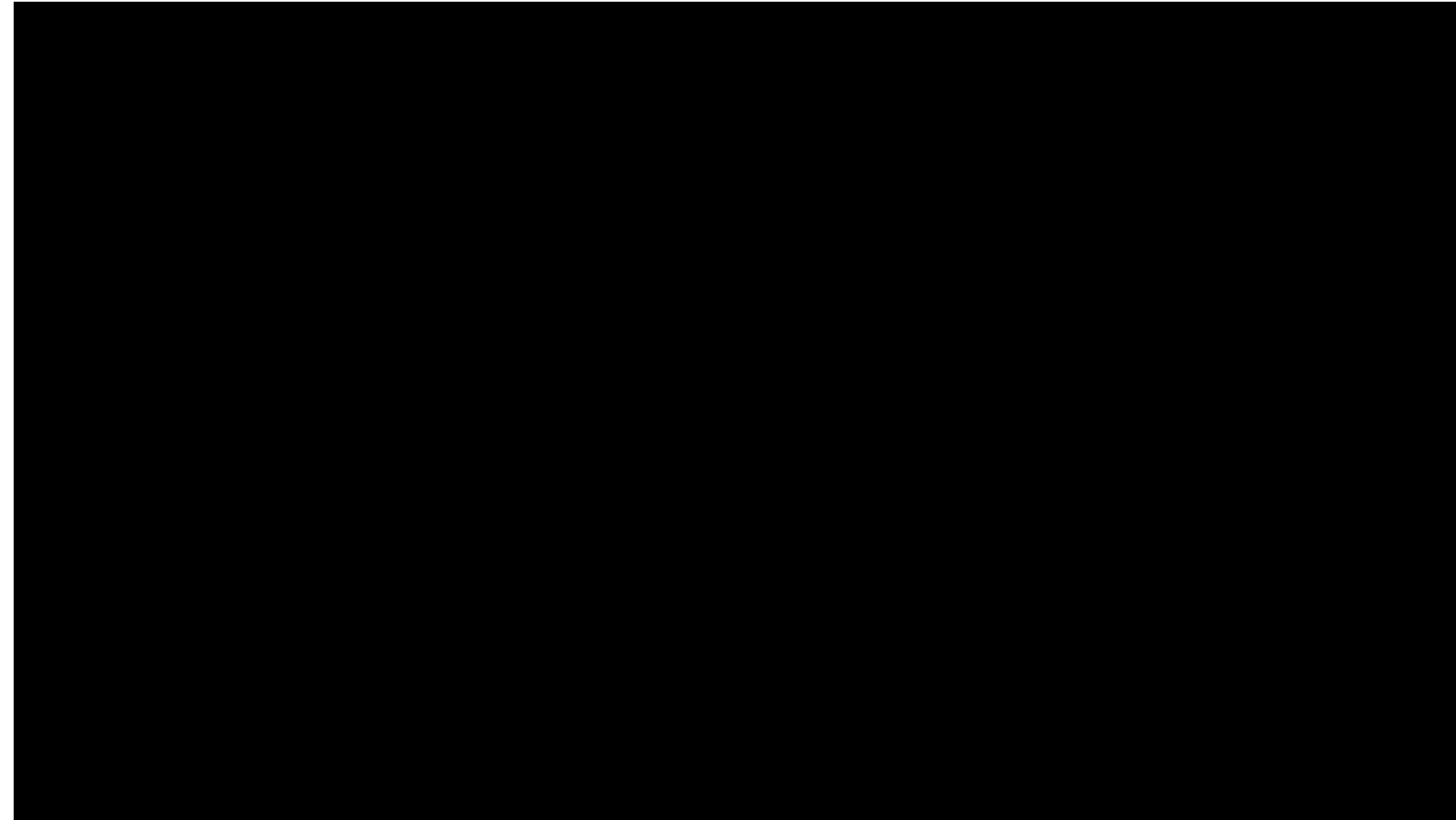
ENERGY

WATER

WASTE

MATERIALS

MOBILITY



<https://www.youtube.com/watch?v=Llzq9YMsPP8>

The background of the image is a close-up photograph of a green leaf. The leaf's surface is covered in a dense network of small, irregular cells, creating a textured, honeycomb-like pattern. Several prominent, thick veins run across the leaf, with one particularly large vein running diagonally from the top left towards the bottom right. The overall color palette is various shades of green, from light lime to a darker forest green.

Tolerance, Sustainability & Circularity

Circularity – Design for a Circular Economy

An economy that is restorative and regenerative by design.

In a circular economy economic activity builds and rebuilds overall system health. The concept recognises the importance of the economy needing to work effectively at all scales – for big and small businesses, for organisations and individuals, globally and locally.

It is based on three principles:

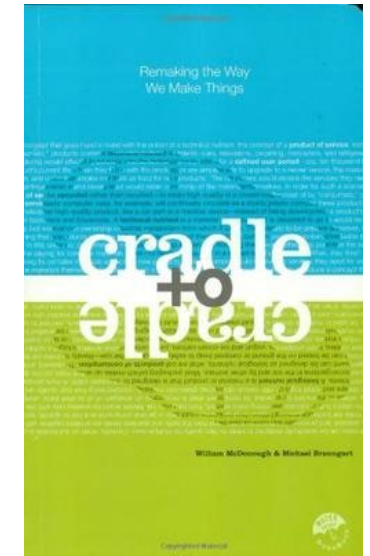
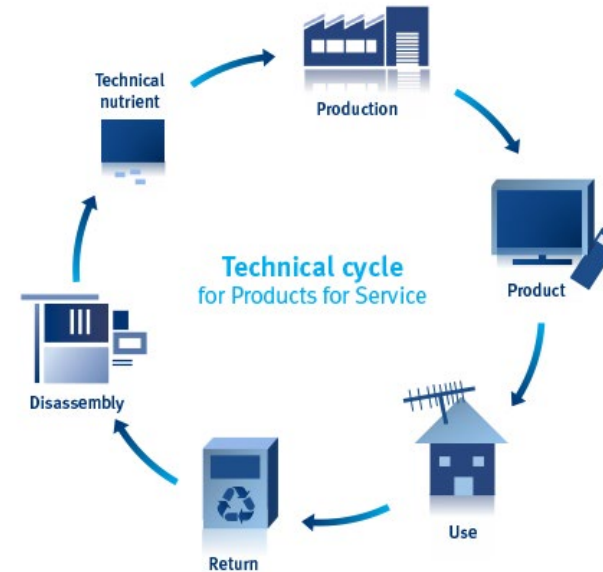
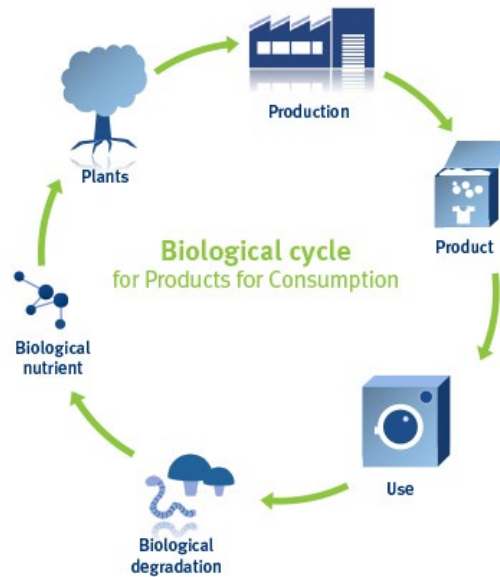
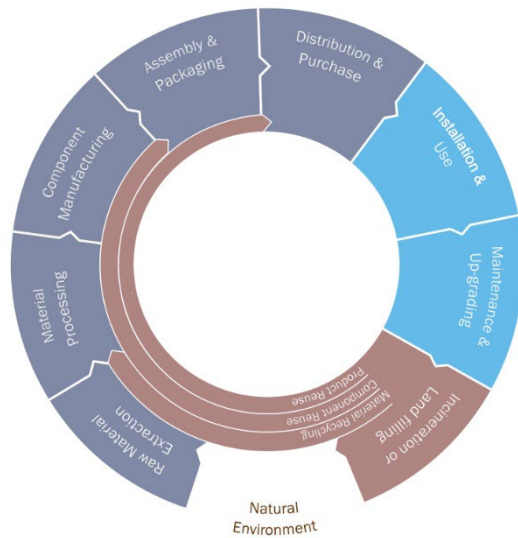
- **Design out waste and pollution**
- **Keep products and materials in use**
- **Regenerate natural systems**



Why circular and cyclic?

Cradle to Cradle® Basis of a circular economy

Source: EPEA GmbH 2010



Biomimicry, Industrial Ecology, Cradle to Cradle and Life Cycle Thinking are all tools which imitate cycles and systems in nature.

Why circular and cyclic?

OUTLINE OF A CIRCULAR ECONOMY

PRINCIPLE

1

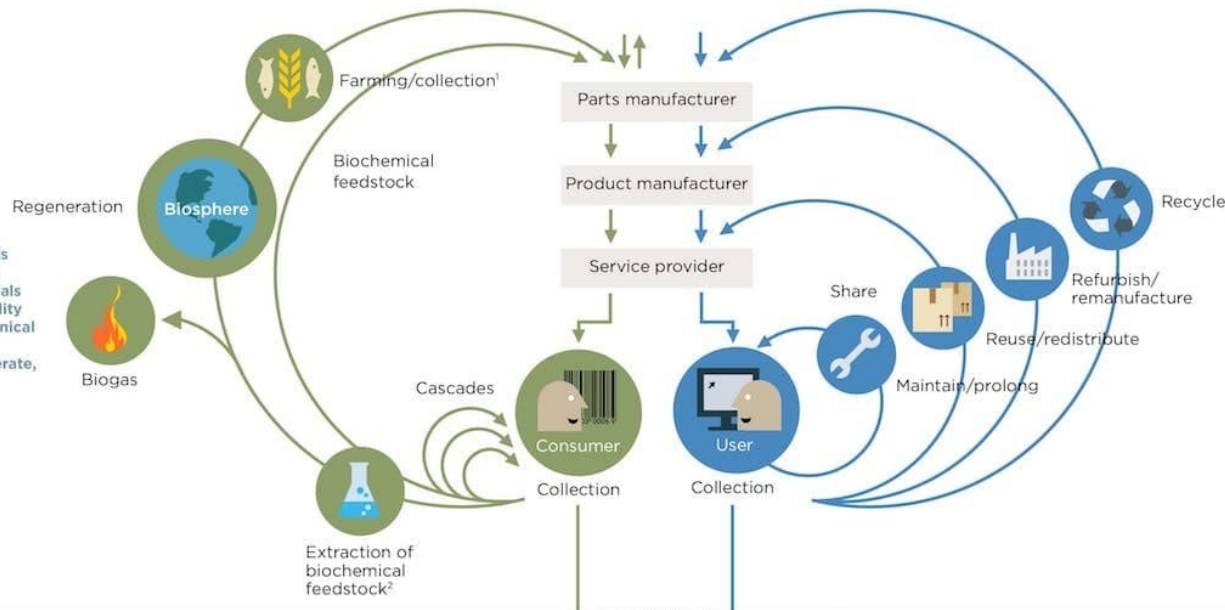
Preserve and enhance natural capital by controlling finite stocks and balancing renewable resource flows
ReSOLVE levers: regenerate, virtualise, exchange



PRINCIPLE

2

Optimise resource yields by circulating products, components and materials in use at the highest utility at all times in both technical and biological cycles
ReSOLVE levers: regenerate, share, optimise, loop



PRINCIPLE

3

Foster system effectiveness by revealing and designing out negative externalities
All ReSOLVE levers

1. Hunting and fishing
2. Can take both post-harvest and post-consumer waste as an input

Source: Ellen MacArthur Foundation, SUN, and McKinsey Center for Business and Environment; Drawing from Braungart & McDonough, Cradle to Cradle (C2C).

Nature operates around ecosystems and cycles, where nothing is wasted, but everything becomes a resource for other species or subsystems.

Circular design tools

Circular design (2018) includes some useful tools and methods for design for the circular economy.

One of these tools, is precisely the “service flip” where products sold are replaced by services provided.

<https://www.circulardesignguide.com/methods>

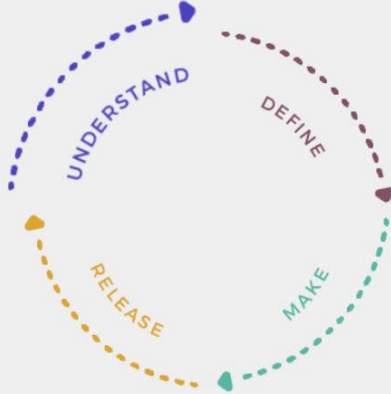
INTRO METHODS MINDSETS STORIES RESOURCES

Methods

We've lined up a number of activities to help you understand, define, make, and release circular innovations. Dive in wherever makes most sense for you and your team.


Don't worry about getting it all right on your first go. The more you prototype and learn, the greater your positive impact on the system.

[HELP TO GET STARTED](#)




UNDERSTAND DEFINE MAKE RELEASE

UNDERSTAND




Understand Circular Flows

UNDERSTAND



Regenerative Thinking

UNDERSTAND



Service Flip

understanding nature,
biology and ecology can help
us to design & innovate, in a
sustainable and circular way !

Tolerance

Coexistence! Living in peace!
Is it only about People?

How about Tolerance (coexistence, living in peace) with all forms of life in our planet?



Let's use **nature** as
model, measure and
mentor, to inspire
solutions for a better,
sustainable, circular
economy !

A landscape of rolling green hills under a sunset sky. The hills are covered in lush green grass, and the sky transitions from a deep orange near the horizon to a lighter yellow at the top. The text is overlaid on the upper portion of the image.

May the values of **tolerance**
allow us to coexist, in peace,
with all forms of life.

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Resources

<https://www.ellenmacarthurfoundation.org/our-work/activities/circular-economy-in-cities>

<https://www.circulardesignguide.com/methods>

<https://www.ellenmacarthurfoundation.org/circular-economy/concept/infographic>

http://www.conservationeconomy.net/pattern_map/noflash/index.html