



## INTEGRATED DESIGN

SET OF PRESENTATIONS
FOR STUDENTS





#### **INTEGRATED DESIGN** - Set of presentations for students (English language version)

© High5 Erasmus+ project consortium, 2022
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University of Thessaly, Greece
University of Aveiro, Portugal
University of Library Studies and Information Technologies, Bulgaria
Tallinn University, Estonia

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- 8. Circular Economy
- 9. Entrepreneur Agile Management
- 10. Corporate Social Responsibility
- 11. High Impact Presentations
- 12. Pictograms





## **Integrated Design**

Transdisciplinary methodology for Integrated Design in higher education

















## What is Integrated Design?

Please think about 3 associations with this term. You can write them down.















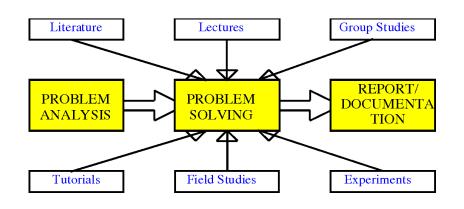


## **Integrated Design (ID)**

#### What is Integrated Design?

- It is a new methodology used in projects.
- Methodology based on Design Thinking (DT) and Problem-Based Learning (PBL)





Source: PBL model at Aalborg University















#### **Integrated Design**

#### What is Integrated Design?



- Main goal is to find the best solution for your challenge.
- Creativity is essential!
- Sustainable development and circular economy aspects are taken into account in the whole designing process.







Source: United Nations























HIGH 5















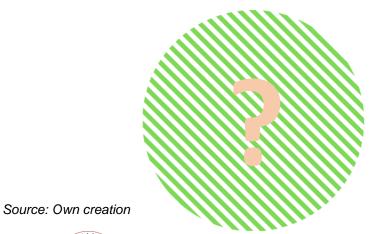


#### **Integrated Design**

method of meeting humans' needs and desires in a technologically feasible and strategically viable way

# human business

#### technology













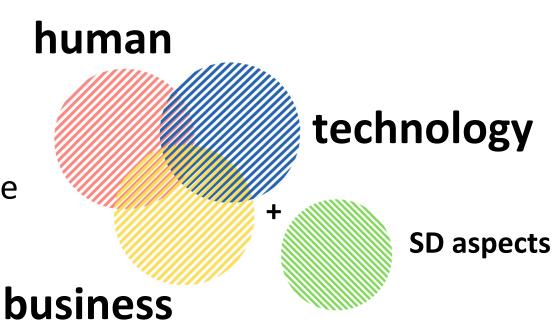


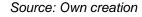


## HIGH 5

#### **Integrated Design**

- Method of meeting humans' needs and desires in a technologically feasible and strategically viable way.
- Products that don't generate value for humans will not generate revenue for the business.



















## Included aspects in ID







technology













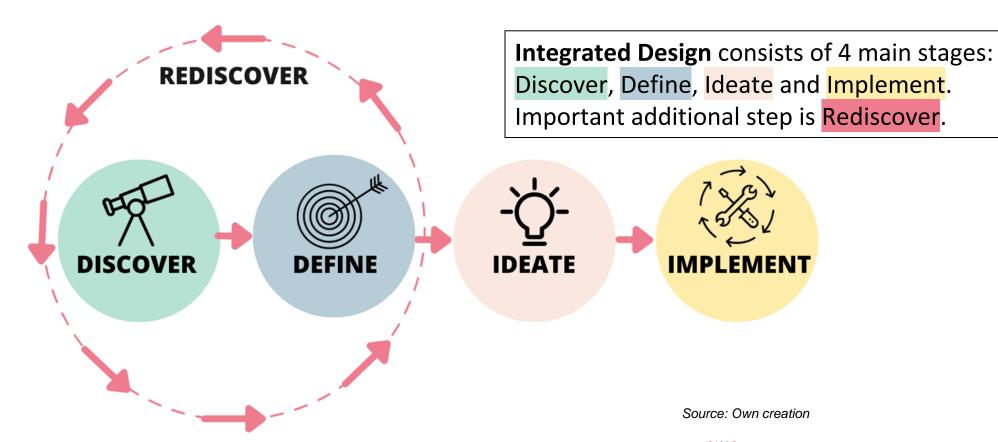








## Stages of Integrated Design











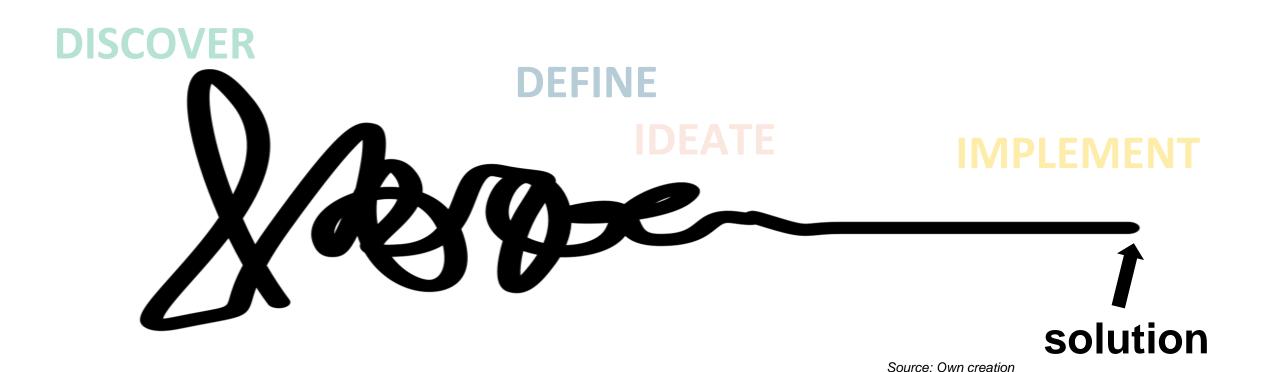








#### **Integrated Design is not linear process**



















### **Integrated Design is ITERATIVE process**



















#### Integrated Design is ITERATIVE process

- Iteration the act of repeating a particular action or process to produce a better outcome.
- Designing and solving problems can take place in a non linear way. Therefore, iteration allows to improve the work and overcome failures supporting the idea –
  - "it is OK to fail".



















### **Integrated Design: DISCOVER**

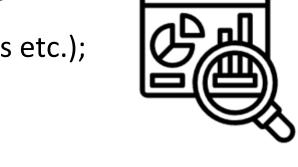
**Discover** phase is at the beginning of the designing process. It is a deep recognition of the topic.

**Discover** stage can be divided into following steps:



- Topic recognition your associations;
- Research in various sources (Internet, scientific journals, books etc.);
- Observations of surroundings;
- Interviews with users, experts etc.

In **discover** you should EXTEND your perspective!











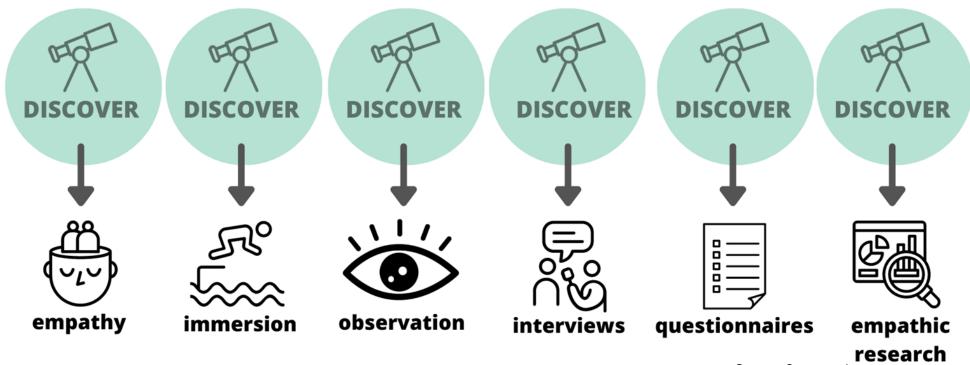


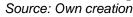






### **Integrated Design: DISCOVER**





















#### **Integrated Design: DEFINE**

After **Discover** stage it is an exact moment to sum up the findings and finalize the data analysis. Let's define some elements.

#### What can you define?

- A challenge that you want to face in the project.
- A problem statement that you want to solve during the project.
- Your potential users and their needs for who you will provide solution(s).
- SD goals that are connected with your challenge and/or problem statement.

**Define** stage is crucial to go further in the ID process.









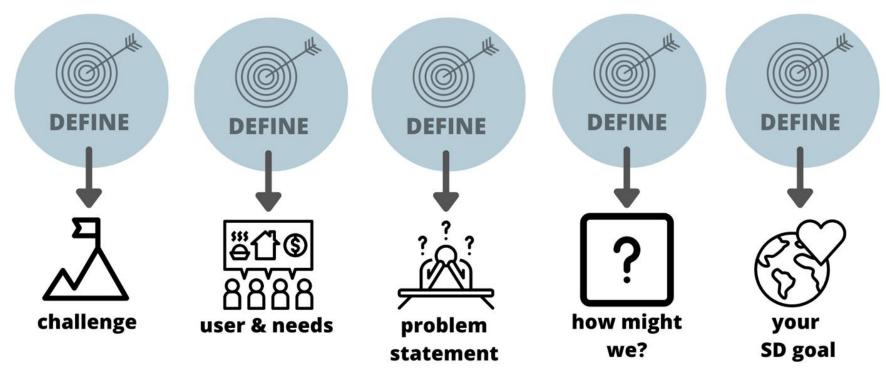


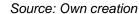






#### **Integrated Design: DEFINE**



















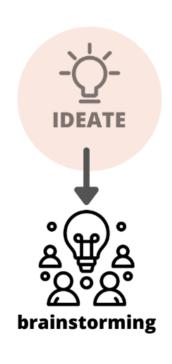


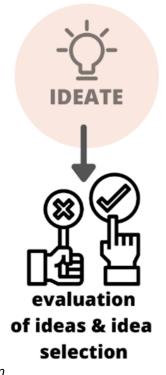
## Integrated Design: IDEATE



#### **IDEATE** is about:

- (1) generation of ideas (there are many brainstorming techniques)
- (2) evaluation of ideas
- (3) selection of idea





Source: Own creation

















## Integrated Design: IDEATE

What is important in brainstorming?

Don't jugde!



Thinking outside the box!

Be creative!

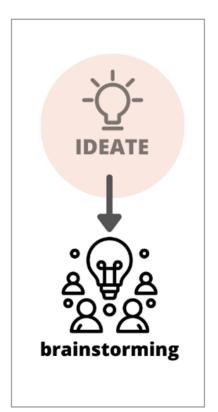


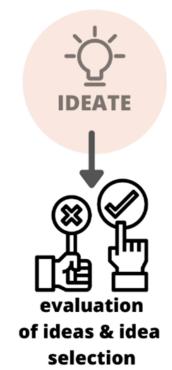


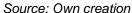




















#### **Integrated Design: IMPLEMENT**

- Implement is about making your idea tangible.
- Implement stage consists of several steps:
- Prototyping the selected idea.
- Testing the idea and gathering feedback.
- Creation of implementation model while the aim is to implement the solution on the market.
- Development of the idea life-cycle.









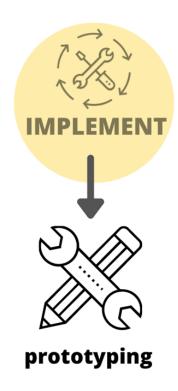


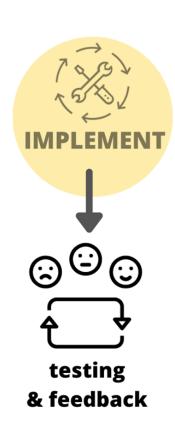


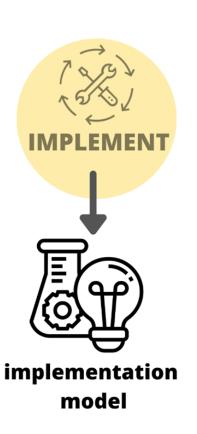


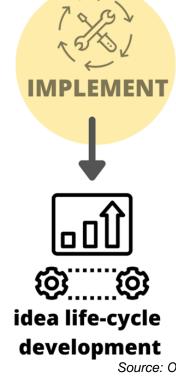


## **Integrated Design: IMPLEMENT**



























## The end





## Integrated design: discover









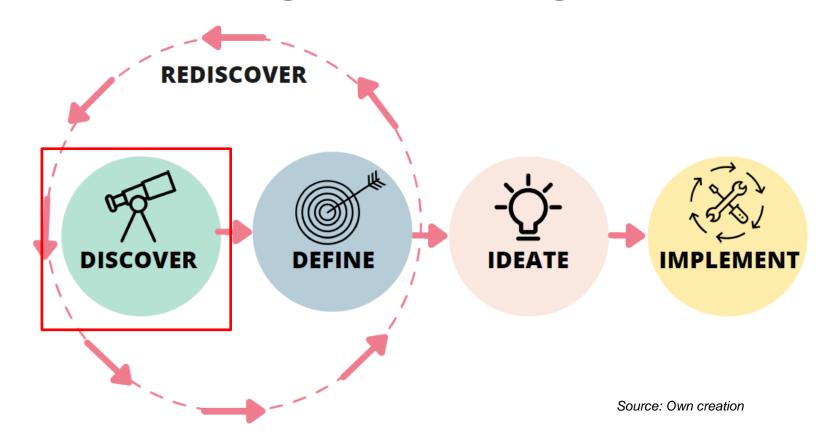








## First phase of integrated design











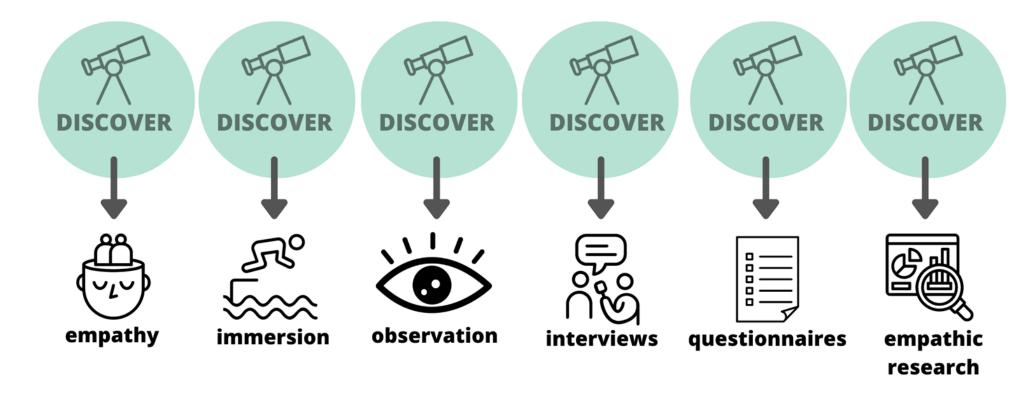


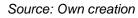






#### Discover – tools















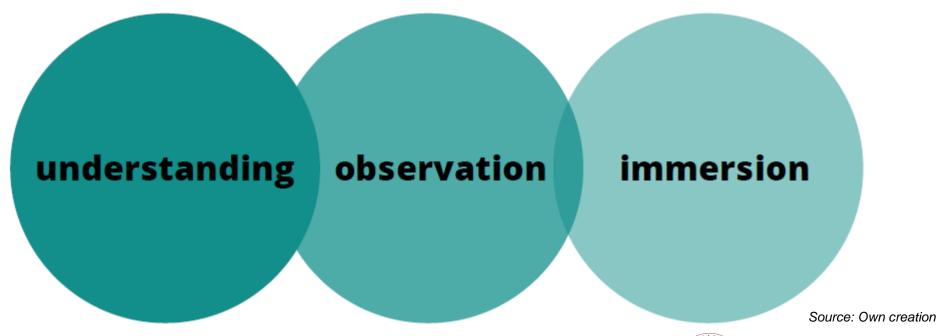






#### Investigation and research

• Discover stage often can be divided into separate but mutually intertwined steps, which are for example: understanding, observation and immersion.



















#### Investigation and research

- Methods: personas (What do they say, think, do, feel?)
- Interviews (open and closed questions, exploratory or predefined, online or focus group)
- Questionnaires
- Observations
- Immersion, participatory research















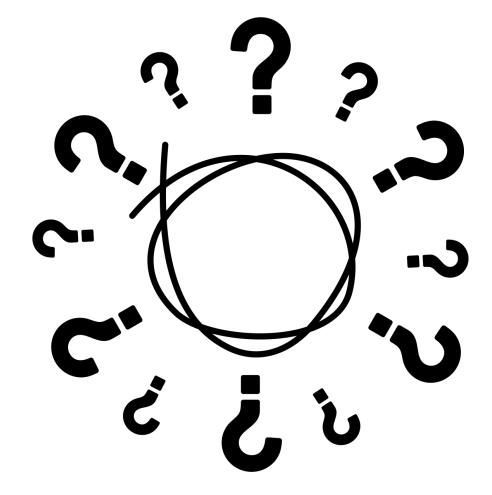


#### **Problem statement**

• Thinking exercise:

For one minute try to answer the following questions according to your topic:

- What is the problem/ problems?
- Whose problem is it?



















Poor governance

Food waste

Biodiversity loss

**Plastic Pollution** 

Deforestation

Air pollution

Melting ice caps and sea level rise

Ocean Acidification

Agriculture

Food and Water Insecurity

- Avoiding Pollution
- Sustainable Mobility
- Green Tourism
- Sustainable Food
- Green Thinking

















Poor governance

Food waste

Biodiversity loss

**Plastic Pollution** 

Deforestation

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Poor governance Food waste **Biodiversity loss Plastic Pollution** Deforestation Air pollution Melting ice caps and sea level rise Ocean Acidification Agriculture Food and Water Insecurity

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Poor governance Food waste

**Biodiversity loss** 

**Plastic Pollution** 

Deforestation

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Poor governance Food waste **Biodiversity loss Plastic Pollution** Deforestation Air pollution Melting ice caps and sea level rise Ocean Acidification Agriculture Food and Water Insecurity

- Avoiding Pollution
- Sustainable Mobility
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- Sustainable Food
- Green Thinking















## HIGH 5

#### **SDGs**





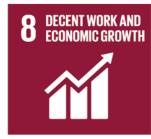
































https://www.hiltonfoundation.org/sdgs

















#### **SDG Flashcards**

 SDG Flashcards contain more than 200 questions relevant to the four dimensions - social, worldview, ecological, economicwhole systems approach to sustainability to collaboratively identify actions and solutions aimed at implementing the global goals in ways that are relevant to their lives and their communities.

















# Addition information about SDGs

- Overview of indicators including the metadata and explanations https://unstats.un.org/sdgs/indicators/database/ and https://unstats.un.org/sdgs/indicators/Global%20Indicator%20Framework%20after%202020%20review\_Eng.pdf
- Country profiles https://country-profiles.unstatshub.org/
- UN Data catalog http://www.sdg.org/#
- UN, GRI and PwC reporting guide https://www.globalreporting.org/resourcelibrary/GRI\_UNGC\_Business-Reporting-on-SDGs\_Analysis-of-Goals-and-Targets.pdf
- Overview of the SDG related global data https://sdg-tracker.org/
- SDG Report 2019 https://www.sustainabledevelopment.report/
- Voluntary national review results https://sustainabledevelopment.un.org/content/documents/26136Estonia\_Main\_messages\_VNR\_Estonia\_2020\_700.pdf
- Estonia specific tool https://tamm.stat.ee/

















# Hands on activity

- 1. Each team will get a bunch of SDG cards
- Look at the flashcards and decide which SDGs are the most relevant to your topic (5 min)
- 3. There is one extra SDG card, return it
- 4. Each one of you will choose one SDG card
- 5. Work on the topic with your team and connect the SDG card to it

















## Homework

- Provide the best possible answers/solutions related to your team topic to the questions on the SDG card.
- Each team member will present how is your topic related to your SDG card during 1 minute

















# The end





# Integrated design: DEFINE









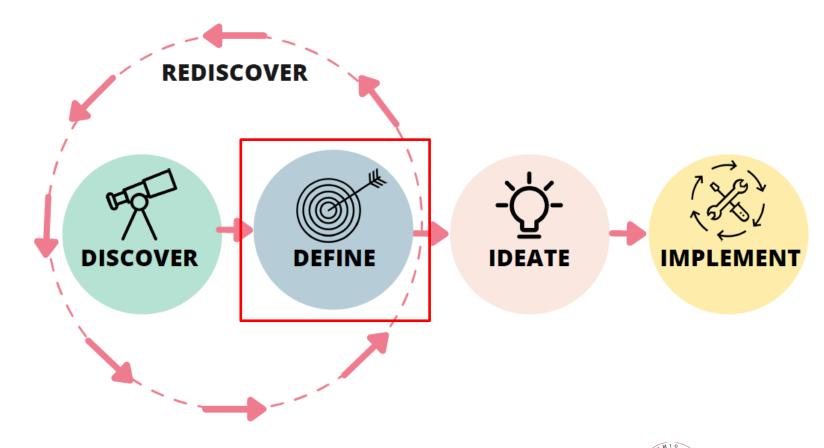








# Second phase of integrated design

















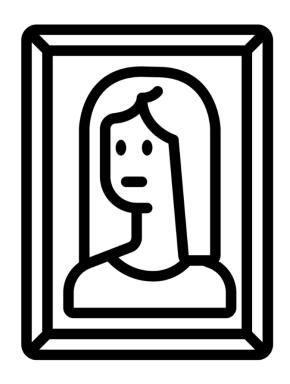


# **Define Stage**

Framing the issue

#### Define:

- User
- Challenge/ Problem
- User's needs
- SD goal(s)
- Insights











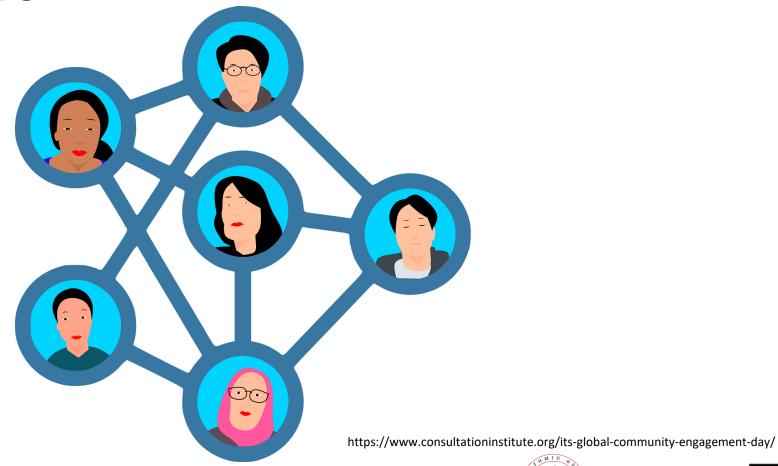








# **Stakeholders**











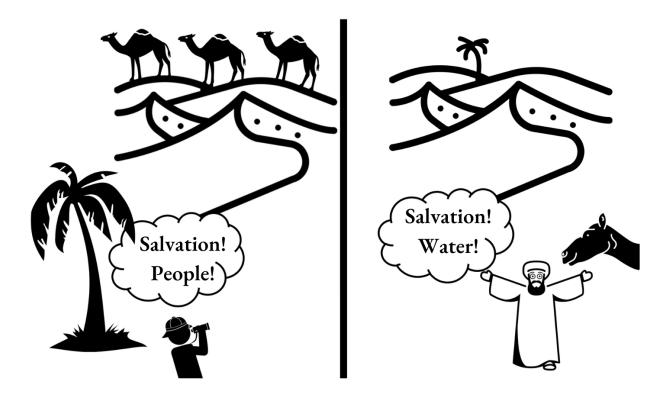








# The concept of POV – different points of view











Source: Own creation







# HIGH 5

# **Constraints**

- Environnement
- Time
- Place
- Culture
- ..

















# The end





# **CREATIVE Persona**

Build a detailed picture of your USER









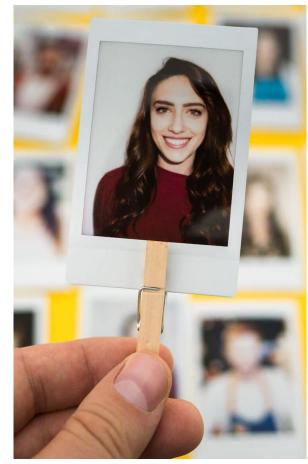


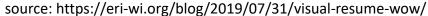






# How to build a good picture of the Persona?





















- Collect and segregate all the information about your target group
- Find some interesting/ inspiring/ funny/ striking/ repeatable\* quotes that you noted during interviews
- Visualize the Persona first in your head, then find a picture or draw a face/ body
- Choose the style of expressing your creative Persona e.g. mind map, list, Feng-Shui map, road map, empathy map, story, journey...
- Take anything you need from the materials and build TOGETHER your CREATIVE PERSONA!!!

\* choose one or more ©















# CREATIVE PERSONA – list

#### (\*) Tip:

It consists of a picture and listed information about the target group, e.g. biometric information, personality features, interests, goals, values, frustrations, fears, motivations, challenges, etc.

#### Jill Anderson



"I'm looking for a site that will simplify the planning of my business trips."

WORK: Regional Director FAMILY: Married, 1 Child LOCATION: Austin, Tx ARCHETYPE: The Frequent Flyer

Organized Practical

Protective Hardworking

#### Bio

Jill is a Regional Director who travels 4-8 times each month for work. She has a specific region in which she travels, and she often visits the same cities and stays at the same hotel. She is frustrated by the fact that no matter how frequently she takes similar trips, she spends hours of her day booking travel. She expects her travel solutions to be as organized as she is.

#### Personality

Introvert	Extrovert
Analytical	Creative
Loyal	Fickle
Passive	Active

#### **Preferred Channels**



source: https://library.xtensio.com/traveler-persona-example

#### Goals

- To spend less time booking travel
- · To narrow her options quickly

#### Frustrations

- . Too much time spent booking she's busy!
- · Too many websites visited per trip
- · Not terribly tech savvy doesn't like the process

#### **Motivations**

Price	
Comfort	
Convenience	
Speed	
Loyalty/Miles	

#### Brands





















# CREATIVE PERSONA – journey/ story

#### (\*) Tip:

It is a way to show the path taken by the user as a customer. In this picture it is important to create a chain of dependencies between the following:

- 1) awareness, 2) research and knowledge, 3) evaluation and consideration,
- 4) purchase, 5) recommendation and loyalty.



source: https://www.mageplaza.com/blog/omnichannel-marketing-strategy-optimize-conversions.html









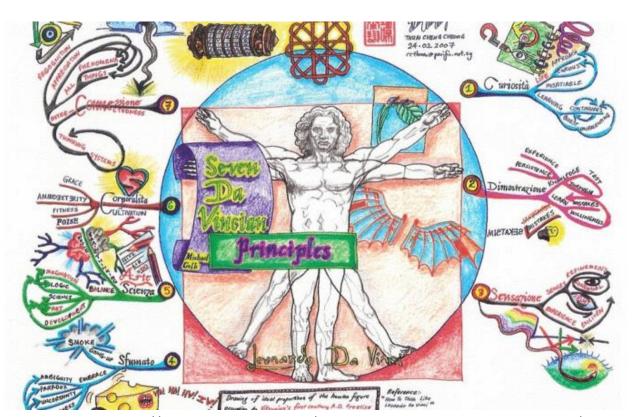








# **CREATIVE PERSONA – mind map**



#### (\*) Tip:

It is created around a single concept – potential user, drawn as an image in the center of a blank page, to which associated representations of ideas such as images, words and parts of words are added. Major ideas are connected directly to the central concept, and other ideas branch out from those major ideas. The branches can be created using similar groups as in a List Persona type, however, here the information are more visual.

source: https://www.mindmapart.com/da-vinci-mind-map-thum-cheng-cheong/













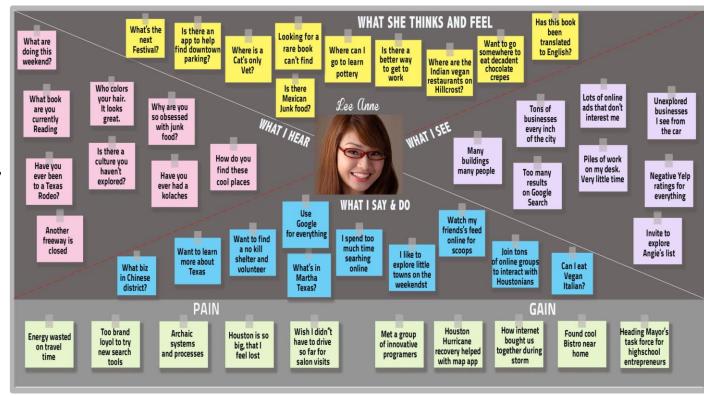


# **CREATIVE PERSONA** —empathy map

#### (\*) Tip:

It provides a picture (or a drawing) of the Persona in the center. Around this picture there are several categories listed describing the user:

- 1) doing (what does a user's typical day look like?),
- 2) seeing (what is the user's environment like?),
- 3) hearing (what influences the user?),
- 4) thinking and feeling (what are the user's hopes, dreams, fears and important issues?),
- 5) pains (what obstacles or challenges does the user have?),
- 6) gains (what does the user hope to achieve and how the success might be measured?).



source: https://www.uxpin.com/studio/blog/the-practical-guide-to-empathy-map-creating-a-10-minute-persona/













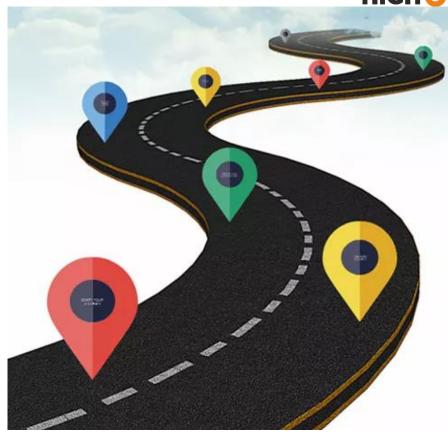


# HIGH 5

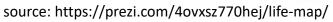
# **CREATIVE PERSONA** road map



(\*) Tip: It defines the progress and change of the user on the timeline.



source: https://prezibase.com/roadmap-presentation/













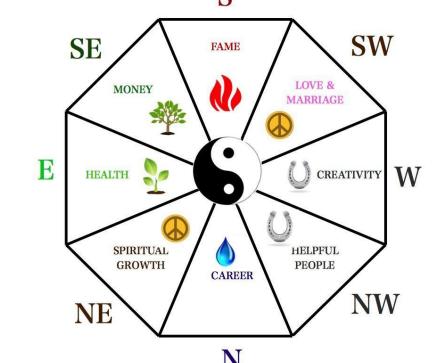




# CREATIVE PERSONA – feng shui (bagua) map

(\*) Tip:

This is a method to represent the important life issues of the user in the form of a circle or a square, placing again the user in center. In Bagua Map the specific place of several life spheres in the general picture is very important. They are as follows: fame - on the top of the user (South), love and marriage – in the right top corner (South West), creativity and children – on the right of the user (West), helpful people and travel – in the right bottom corner (North West), career – on the bottom of the user (North), knowledge, self-development and growth – in the left bottom corner (North East), health and family – on the left of the user (East), wealth and money – in the left top corner (South East).



source: https://www.magicbricks.com/blog/feng-shui-bagua-map/130106.html

















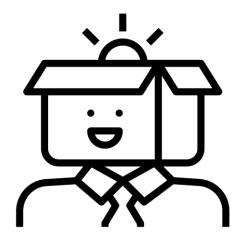
# CREATIVE PERSONA – create your own graphics and show it!





# **Brainstorming**

Ideation part of the Integrated Design











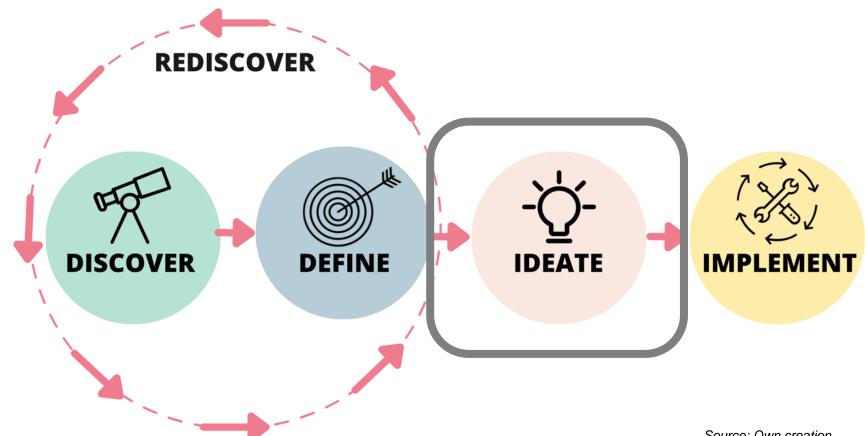








#### THE STAGES OF INTEGRATED DESIGN



Source: Own creation

















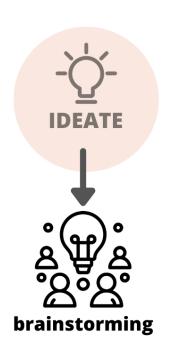
# What is hidden under the IDEATE phase?

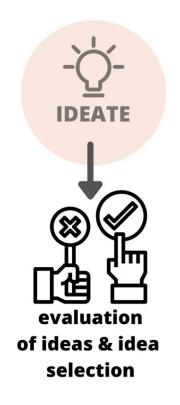
**STAGE 1. IDEAS GENERATION** 

**STAGE 2.** EVALUATION OF IDEAS AND IDEA SELECTION

**STAGE 3. DATA PRESERVATION** 

**STAGE 4. VERIFICATION** 





Source: Own creation

















# **Brainstorming rules**

#### No criticism!

**Quantity > quality** 

Ideas belong to the group

**Encourage even wildest ideas** 

Try to stay focused on the topic

No idea is stupid

#### WHY BRAINSTORMING?

- Teaches to listen
- ☐ You can build on the ideas of teammates
- ☐ Stimulation of creativity
- ☐ Each participant has the same value
- ☐ Each idea is valuable
- Quick method
- ☐ Allows the multidirectional approach

















**BRAINSTORMING THEME:** 

Redesign gym experience

**Initial set of ideas** 



Additional equipment

GYM = BUS

Green eating



ΘΕΣΣΑΛΙΑΣ

















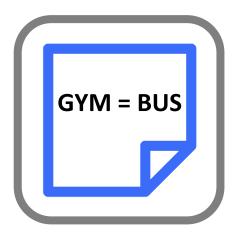
**BRAINSTORMING THEME:** 

Redesign gym experience

**Second set of ideas** 



















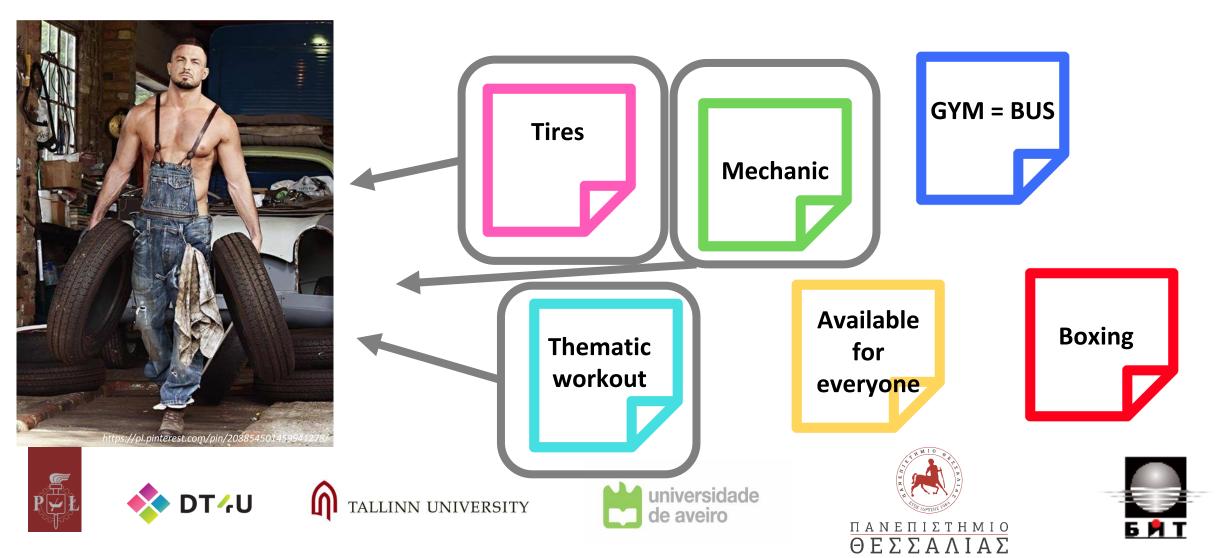












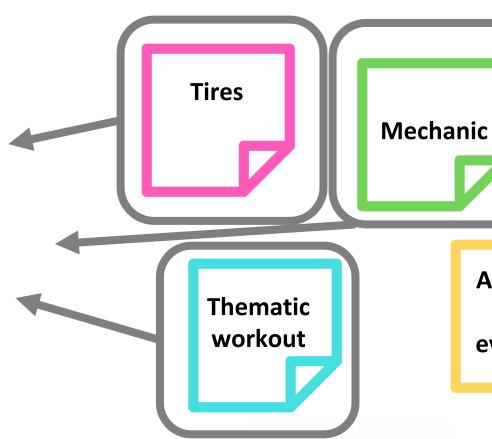




# Gym resembling car repair shop

#### **IMPORTANT ASPECTS OF AN IDEA**

- Bonus motivator (picture)
- No such solution in Poland
- PUBS/ restaurants decoration easy to adjust (cheap)
- Multiple ways of interior design





**GYM** = **BUS** 









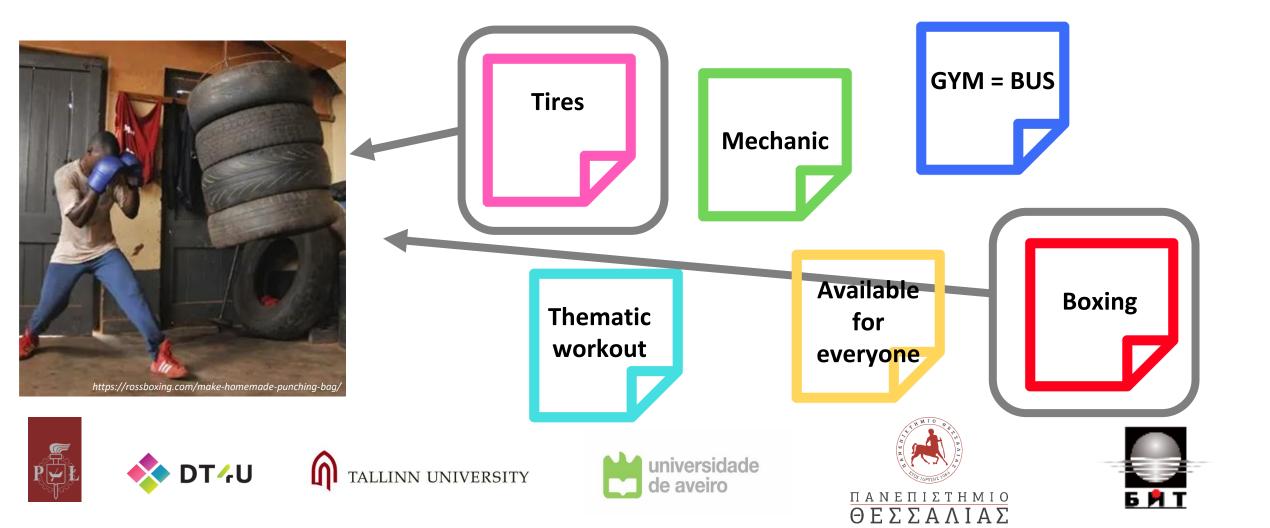






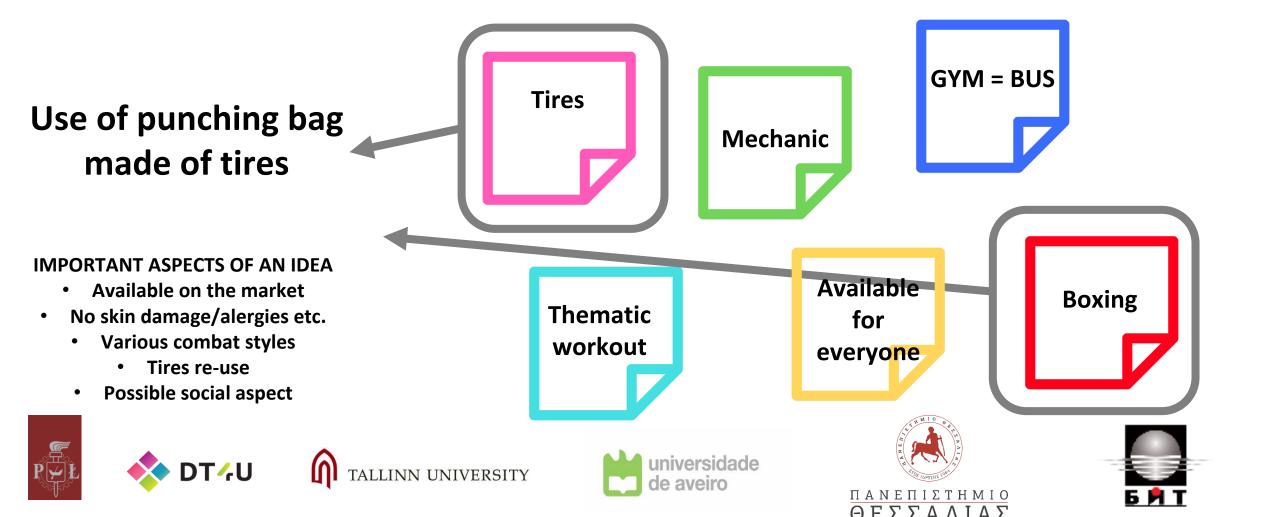
















# Let's get to work on finding solution!

**√15 minutes** to refer brainstorming results within the group & grouping











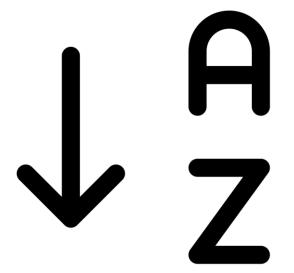












**Step 1.** On the top of the page, write down your problem statement

**Step 2.** Find solutions to this problem, each solution starting with each single letter of the alphabet

A... B... C...

















With some contraints

Add at least 2 solutions for the problem, that link with



# BIG AMOUNT OF MONEY \$\$\$

















## Let's brainstorm!

With some contraints

Add at least 2 solutions for the problem, that link with

# SOCIAL DISCONTENT

















## Let's brainstorm!

With some contraints

Add at least 2 solutions for the problem, that link with

## **MAGIC**















# Let's get to work on finding solution!

✓ 10 minutes to refer to new brainstorming results within the group & grouping















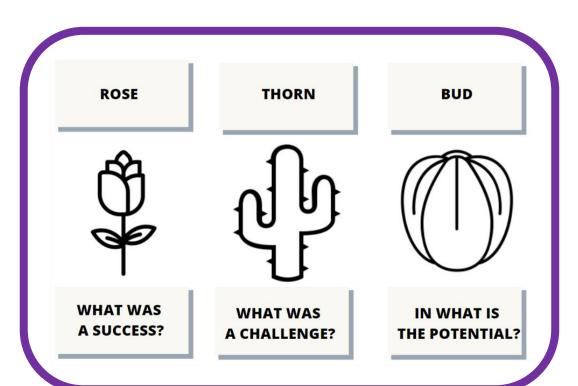


### **Evaluation of ideas & idea selection TOOLS**

**F**EASIBLE

**A**TTRACTIVE

Novel



Now

How

**W**ow

















DIFFICULT TO IMPLEMENT

How?

EASY TO IMPLEMENT

Now?

**W**ow!

**CASUAL** 

**ORIGINAL** 

















#### DIFFICULT TO IMPLEMENT

**EASY** 

TO

**IMPLEMENT** 

### Now?

- Low risk
- Numerous existing similar solutions
- High acceptability

### How?

- Future plans
- Requires significant assets/cooperation
- Hard to be cloned

### Wow!

- Innovative
- Breakthrough

# Choice is dependent on the phase of project and devotion of the team

**CASUAL** 

#### **ORIGINAL**















#### **DIFFICULT** TO IMPLEMENT

#### **EASY TO IMPLEMENT**







### Now?

- Well understood threats
- Common patterns to implement

### How?

- Technical and materials limitations
- Barriers of different nature (legal, ethical, delivery etc.)

### Wow!

- Opportunity
- Success rises the team's motivation



Each polygon can be related with useful information to extract

#### **CASUAL**









#### **ORIGINAL**









# Let's evaluate your solutions!

✓ 15 minutes solutions evaluation using

NowHowWow method

















### Before the next stage

✓ Select 3 solutions to your problem (we will work on them later!)















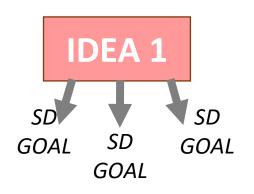


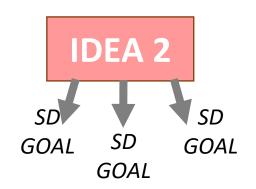
### Further evaluation of ideas

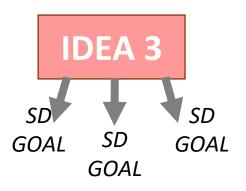
### SUSTAINABILITY MEASURE



☐ For each of your solutions, select 3 SD goals that they are related to. **EXPLAIN WHY** 







☐ Briefly describe how each of your3 solutions fit the circular economy aspects?





















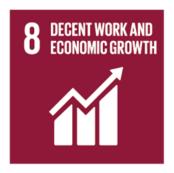
































https://www.hiltonfoundation.org/sdgs









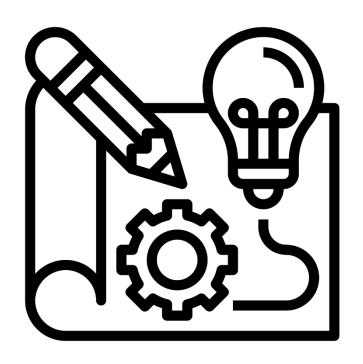








# And this leads to the prototyping stage...



- ☐ What materials would you use to create the real solution?
  - Are these materials reusable/recyclable?
  - ☐ How can you manufacture/make it?

















# And this leads to the prototyping stage...

#### **MAKE IT!**

- ☐ Describe what are the **key features** that must be implemented to get a **Successful Product/Service** that answers the problem you have?
  - Describe what are the functions that are important, but not critical, that can be performed differently.
  - ☐ Describe what are the features of your design that would be beneficial but don't make a significant change to the user experience.

















# The end





# IMPLEMENT Make Your Idea Real

Stage and tools

















# Implementation of new tools

- Not clear
- Have to be introduced

Source: Joke of the day: Grandpa and iPad https://www.youtube.com/watch?v=U2gQE0J00UE









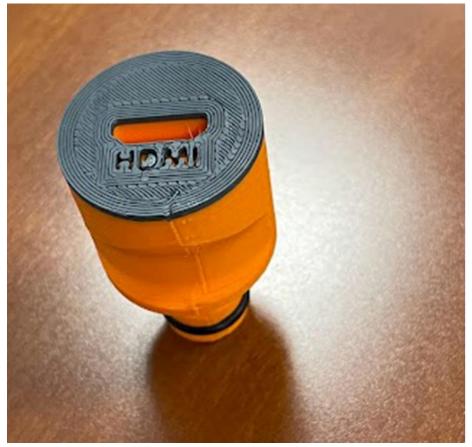






### What is this tool about?

















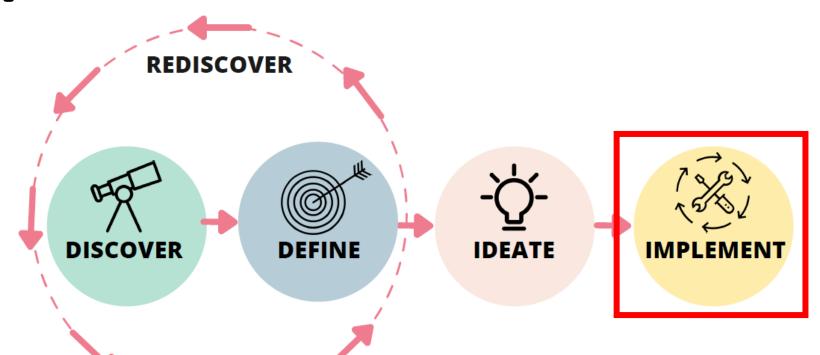
Source: https://www.3dprintthisout.store/en/bo utique/divers/adapteur-hdmi-gardenaimprime-en-3d/







# Implement



Source: Own creation

















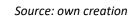




















# SUSTAINABLE GEALS DEVELOPMENT GEALS





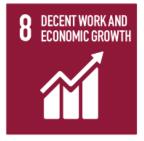
































Source: United Nation, #Envision2030: 17 goals to transform the world for persons with disabilities https://www.un.org/development/d esa/disabilities/envision2030.html















# Erasmus+ Shift from ... to ... implementation







Source: Image by valadzionak\_volha on Freepik https://www.freepik.com/free-vector/earth-cleandirty\_7858400.htm#page=4&query=dirty%20planet&position=11&from\_view=search&track=sph

















# SMART objectives

**Specific** – you know exactly what the author wants to happen.

**Measurable** – you can objectively measure or assess whether the team achieved the result.

**Achievable** – the objective is something you can actually get done (no "stretch objectives").

**Result** – the objective is a result you desire and not an activity.

**Time-bound** – the team must complete the objective by a deadline, to create urgency and priority.









Source: Image by nuraghies on Freepik https://www.freepik.com/free-vector/red-dart-arrowhitting-target-centerdartboard\_28563661.htm#query=target&position=1& from view=search&track=sph







# Implementation plan – how to develop?

















### Prototype



#### Prototype

Test

Feedback

#### Model

Get Visual

Determine What to Prototype – De Bono's thinking hats

- Journey Map
- Rapid Prototyping
- Storyboard
- Role Play
- Co-Creation Session
- Mindmap















#### CREATIVITY

Ideas, alternatives, possibilities

Lateral thinking



#### **PROCESS**

Thinking about thinking Planning for action



#### FACTS

Information and data Neutral and objective What do I know?

How will I get the information I need?



De Bono Thinking hats



#### CAUTION

Caution, Critical thinking
Why something may not work



Intuition, hunches
My feelings right now
No reasons are given





#### BENEFITS

Optimism

Positives, plus points

Logical reasons are given

Source: https://urbact.eu/toolbox-home/de-bono-thinking-hats









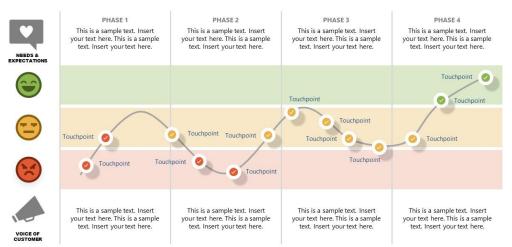




### Journey Map



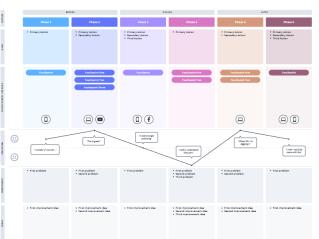
#### Free Customer Journey Map Template

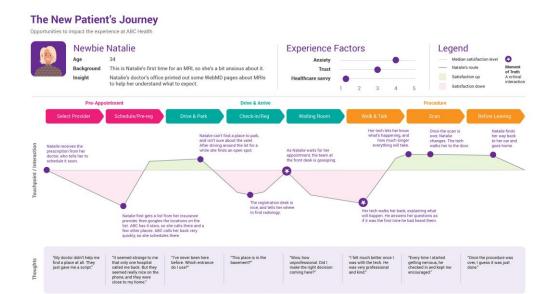


Source: https://slidemodel.com/freepowerpoint-templates/free-customerjourney-map-template-for-powerpoint/



Source: https://app.moqups.com/ edit/page/ad64222d5







#### Source:

https://www.customerthermometer.com/cust omer-experience/customer-journey-mappingtemplates/

#### Source:

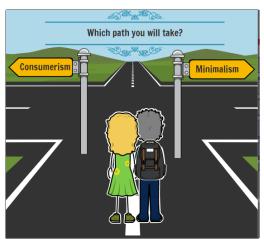
https://www.columbiaroad.com/blog/whyand-how-to-create-a-customer-journey-mapdownload-free-template



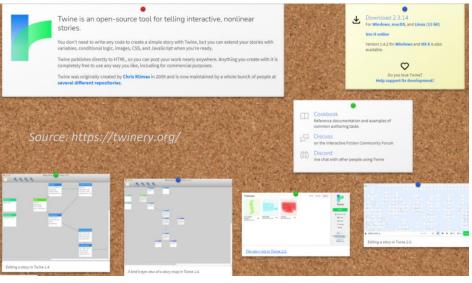
# Storyboard - Storytelling











Source: Created by Storyboard creator, https://www.storyboardthat.com/storyboard-creator















ΘΕΣΣΑΛΙΑΣ

Create your own at Storyboard That



# Prototype





Source: Image by pch.vector on Freepik https://www.freepik.com/free-vector/eco-volunteers-cleaningsea\_7416547.htm#query=cleaning%20planet&position=1&from\_view=search&track=sph















### Test



#### Prototype

Test

Feedback

Model

• Live Prototyping - a chance to run your solution for a couple weeks out in the real world.

- **Keep Iterating** -help you get a great solution to market and let you know where to push it when you do.
- Build Partnerships stakeholders/partnerships map.
- Roadmap timeline and a plan of action to get your idea out into the world
- Sustainable Revenue financial spreadsheets and forecast on how the revenue of a certain product/solution/service would look like.
- Measure and Evaluate design the ways that you'll measure and grow it into your solution.















### Feedback



#### Prototype

Test

Feedback

Model

- Do you remember Discover?
  - Interview
  - Questionnaires
  - Observation
  - Immersion
  - Empathy
  - Research
- What have we got to use now?















### Feedback

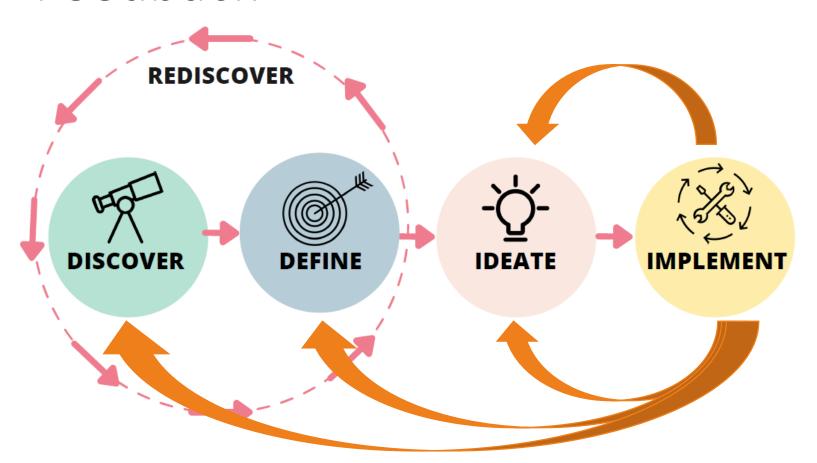


Prototype

Test

Feedback

Model



Source: Own creation





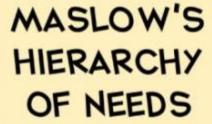












ABRAHAM

MASLOW

MORALITY, CREATIVITY, SPONTANEITY, PROBLEM SOLVING, LACK OF PREJUDICE, ACCEPTANCE OF FACTS

Abraham Harold Maslow (April 1, 1908 - June 8, 1970) was a psychologist who studied positive human qualities and the lives of exemplary people. In 1954, Maslow created the Hierarchy of Human Needs and expressed his theories in his book, Motivation and Personality.

SELF-ACTUALIZATION

SELF-ESTEEM, CONFIDENCE, ACHIEVEMENT, RESPECT OF OTHERS, RESPECT BY OTHERS



FRIENDSHIP, FAMILY, SEXUAL INTIMACY

LOVE/BELONGING

SECURITY OF BODY, OF EMPLOYMENT, OF RESOURCES, OF MORALITY, OF THE FAMILY, OF HEALTH, OF PROPERTY

SAFETY

BREATHING, FOOD, WATER, SEX, SLEEP, HOMEOSTASIS, EXCRETION

motivation to reach his or her full potential. As shown in Maslow's Hierarchy of Needs, a person's basic needs must be met before self-actualization can be achieved.

Self-Actualization - A person's

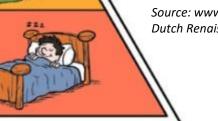
Source: www.timvandevall.com Dutch Renaissance Press LLC 2013

HIGH 5













### **CLAIM Model**



Prototype

Test

Feedback

Model

















### **CLAIM Model**











Source: Image by stephanie2212 on Freepik https://www.freepik.com/free-vector/hand-drawn-save-ocean-banner\_22162244.htm#query=cleaning%2 Oplanet&position=5&from\_view=search&track=sph



Source: Image by storyset on Freepik https://www.freepik.com/freevector/save-earth-conceptillustration\_23506590.htm#query=clean%20planet&position=2&from\_view=search&track=sph



Source: Image by valadzionak\_volha on Freepik https://www.freepik.com/free-vector/earth-cleandirty\_7858400.htm#page=4&query=dirty%20planet& position=11&from\_view=search&track=sph











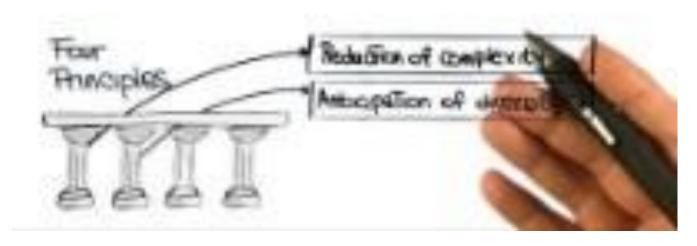




### Implementation







Source:Implementation - Georgia Tech - Software Development Process https://www.youtube.com/watch?v=skpVpuB8VBY















# CLAIM Model – Clean up

Clean up

HIGH 5

- Walk the current process
- Review current steps
- Assess what is required to bring new
- Prepare the environment for new
- Set expectation for change



Source: Image by brgfx on Freepik https://www.freepik.com/freevector/illustration-with-pollutionsearth\_6907492.htm#query=pollution&position= 26&from\_view=search&track=sph













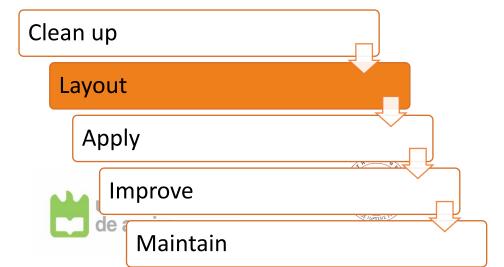
# CLAIM Model - Layout



- Map the new solution
- Assign role, activities & audits
- Develop the standards & reporting
- Entrench through training



Source: Image by pch.vector on Freepik https://www.freepik.com/free-vector/eco-volunteers-cleaningsea\_7416547.htm#query=cleaning%20planet&position=1&from\_view=search &track=sph













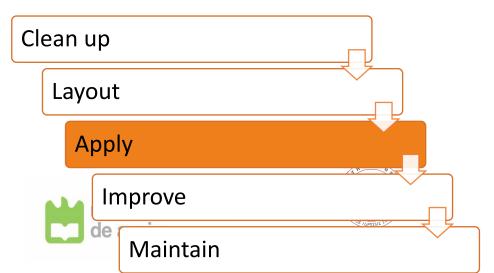
# CLAIM Model - Apply



- Begin using
- Audit to ensure standard is followed
- Retrain as needed
- Document lessons



Source: Image by pch.vector on Freepik https://www.freepik.com/free-vector/eco-volunteers-cleaningsea\_7416547.htm#query=cleaning%20planet&position=1&from\_view=search &track=sph













## CLAIM Model - Improve

Clean up

Layout



- Find improvement opportunities
- Review opportunities
- Approve opportunities
- Make changes
- Ensure update of steps and retraining take place



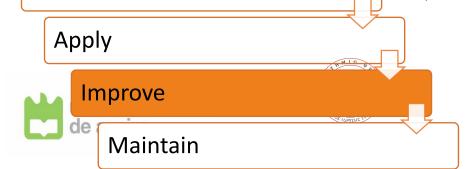
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illustration\_23506590.htm#query=clean%20plane t&position=2&from\_view=search&track=sph













## CLAIM Model - Maintain

Clean up

Layout



- Follow new steps
- Audit as planned
- Continue to improve
- Evaluate periodically



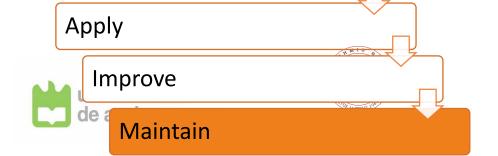
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illustration\_23506590.htm#query=clean%20planet
&position=2&from\_view=search&track=sph













## Implementation - CLAIM Model







https://www.freepik.com/freevector/illustration-withearth 6907492.htm#query=pollu tion&position=26&from view=se arch&track=sph





Source: Image by stephanie2212 on Freepik https://www.freepik.com/freevector/hand-drawn-save-oceanbanner 22162244.htm#query=cleaning%2 Oplanet&position=5&from view=search&tr ack=sph



Source: Image by storyset on Freepik https://www.freepik.com/freevector/save-earth-conceptillustration 23506590.htm#qu ery=clean%20planet&position= 2&from view=search&track=s



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## The end





# Why we need to talk about sustainability?

















# Are you green or sustainable?

















## Are you green or sustainable?

- Going green refers to all aspects of environmentally-friendly products from fashion to buildings to the movement as a whole.
- Sustainability means that what we do today doesn't deplete resources for future generations.
- Some products can be green due to their appearance, but they are not sustainable due to their production (e.g. life-cycle analysis).

















## Sustainability

- Sustainability means meeting our own needs without compromising the ability of future generations to meet their own needs.
- Sustainability is a holistic approach that considers ecological, social and economic dimensions, recognizing that all must be considered together to find lasting prosperity.







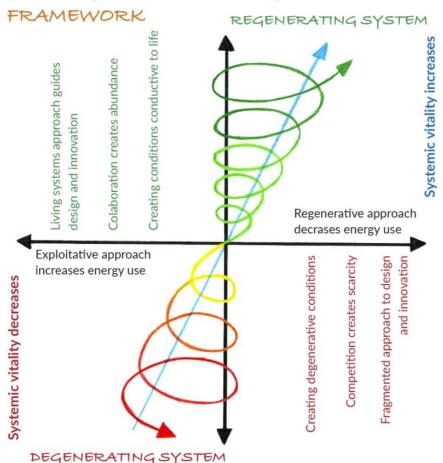








### THE REGENERATIVE DESIGN



### Regenerative

Appropriate participation and deisgn as nature.

#### Reconciliatory

Reintegrating humans as integral parts of nature.

#### Restorative

Humans doing thing to nature.

### Sustainable

Neutral point of not doing any more damage.

#### Green

Relative improvements.

### Conventional practice

Compliants to avoid legal actions.

Where we need to be



Where we want to be

Where we are





Source: Designing Regenerative Cultures, 2016 - www.danielchristianwahl.com; Graphics: www.flaviagargiulo.com







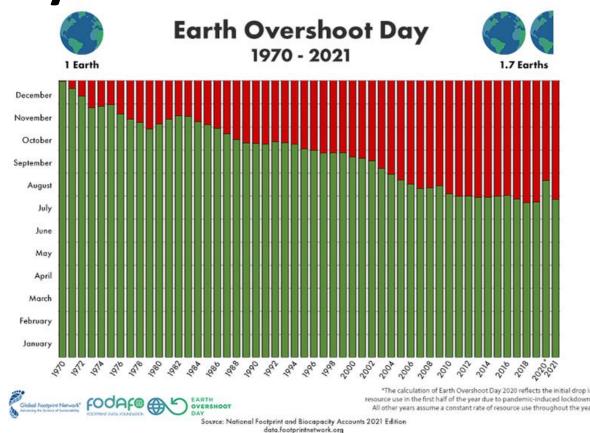






## Earth overshoot day

• In 2021 by 29. July we had used all the resources that Earth can reproduce in a year. For the rest of the year, we are maintaining our ecological deficit by drawing down local resource stocks and accumulating carbon dioxide in the atmosphere.











https://www.overshootday.org/









### Top Ten overshooters?

- 1. Qatar 10/2/2022
- 2. Luxembourg 14/2/2022
- 3. Cook Islands 11/3/2022
- 4. Bahrain 12/3/2022
- 5. Canada 13/3/2022
- 6. United Arab Emirates 13/3/2022
- 7. USA 13/3/2022
- 8. Estonia 14/3/2022
- 9. Belize 15/3/2022
- 10. Kuwait 15/3/2022



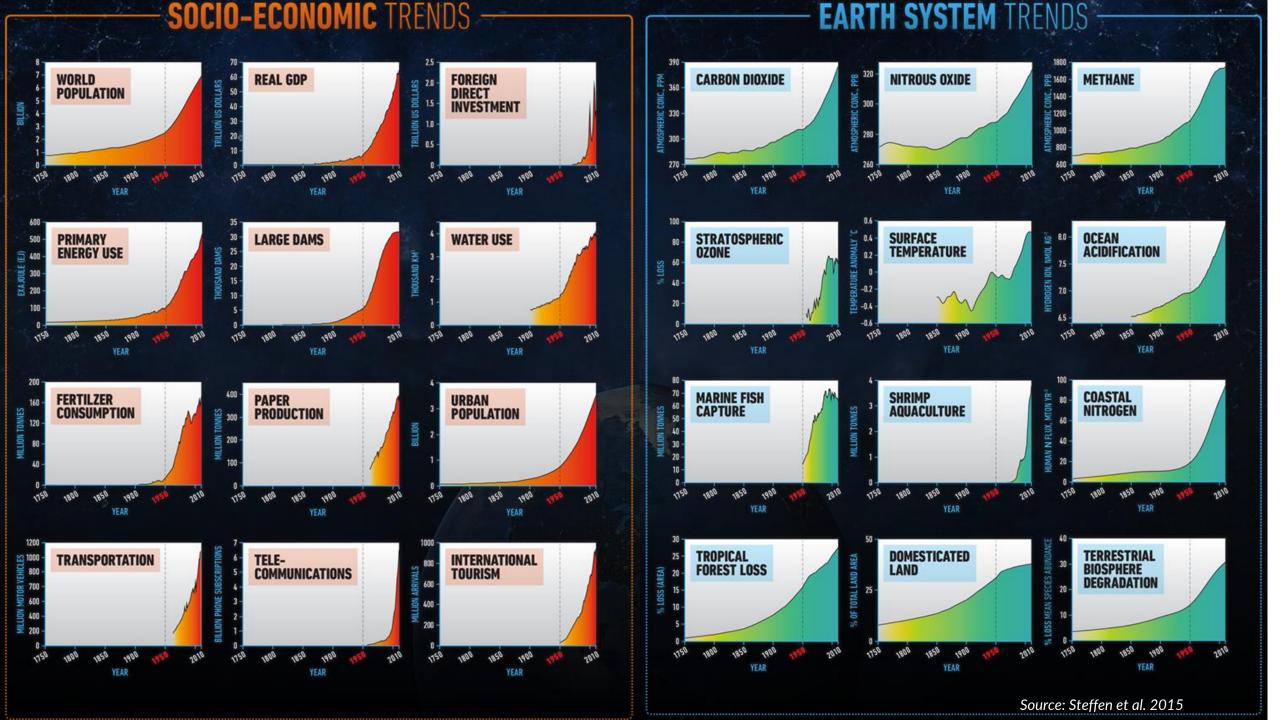
















# Climate change



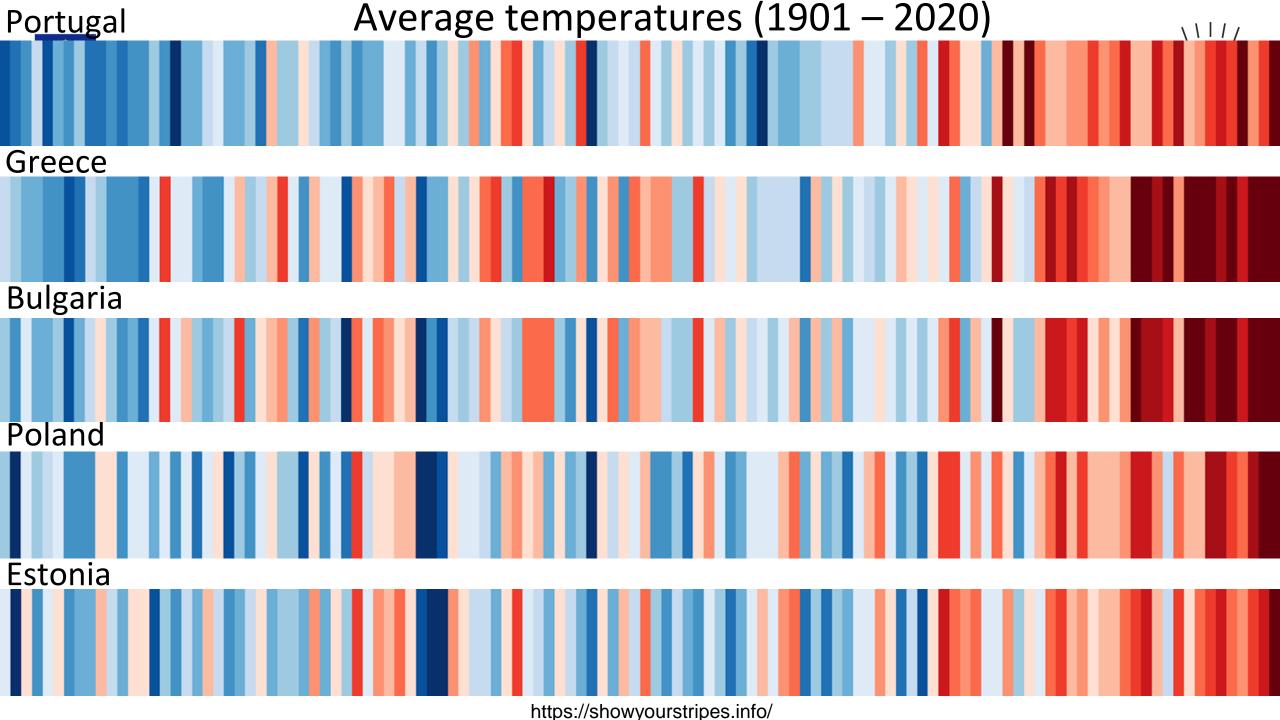
















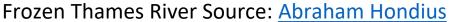
### COAL CONSUMPTION AFFECT-ING CLIMATE.

The furnaces of the world are now burning about 2,000,000,000 tons of coal a year. When this is burned, uniting with oxygen, it adds about 7,000,000,000 tons of carbon dioxide to the atmosphere yearly. This tends to make the air a more effective blanket for the earth and to raise its temperature. The effect may be considerable in a few centuries.

Published Aug. 14, 1912.













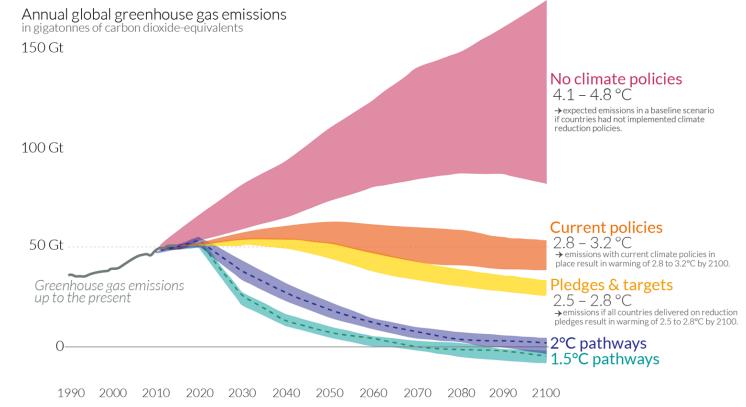


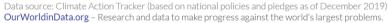






- The Conference of Parties (COP) to the United Nations Framework Convention on Climate Change (UNFCCC) at its 21st Session in Paris, France (30 November to 11 December 2015), agreed to keep the global warming of 1.5°C above pre-industrial levels.
- Limiting warming to 1.5°C is possible within the laws of chemistry and physics but would require unprecedented transitions in all aspects of society.





Licensed under CC-BY by the authors Hannah Ritchie & Max Roser.









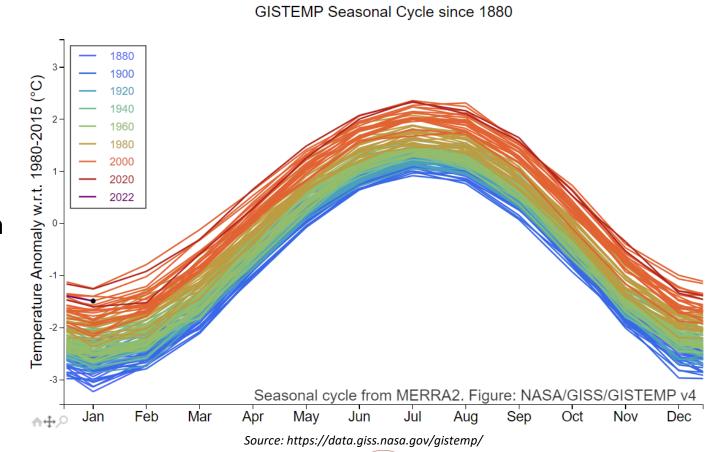








- 2021 culminated as the sixth warmest year on record (0.84°C above the 20th century average).
- The years 2013–2021 are the ten warmest years on record.
- The year 2021 was also the 45th consecutive year (since 1977) with global temperatures above the 20th century average.
- Overall, the global annual temperature has increased at an average rate of 0.08°C per decade since 1880 and over twice that rate (0.18°C) since 1981.

















## IPCC 6th assesssment report

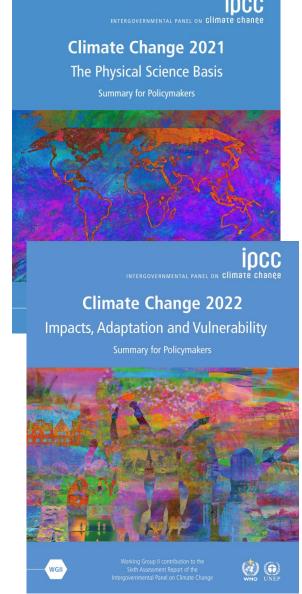
- Over 40% of global population (3.3-3.6 B) will be directly impacted by climate changes (living in the vulnerable territories).
- Currently, the top 10% of global emitters are contributing between 36 and 45% of emissions, which is 10 times as much as the poorest 10% responsible for only about three to 5%.
- The world needs to halve emissions in the next decade to stay within 1.5C and reach net zero emissions by 2050.
- Lifestyle and diet changes will be instrumental in combating global warming, from refraining from overheating or over-cooling homes to switching to a plant-based diet. This can reduce emissions by up to 50% compared to the average emission intensive western diet.
- There should be no new fossil fuel power plants constructed or developed from this moment onwards if the world wishes to stay within 1.5 C of global temperature increase.











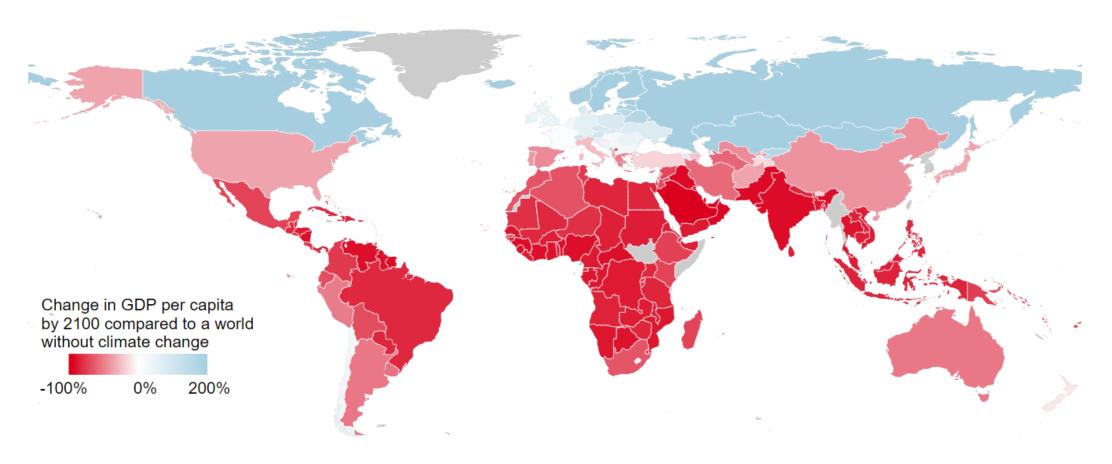












https://web.stanford.edu/~mburke/climate/map.php

















# Loss of biodiversity













# Erasmus+ 60% are livestock 36% are humans 70% of birds are 30% other poultry

### One in four species are at risk of extinction

Species assessed by the IUCN Red List





Amphibians 40%



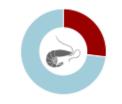
Conifers 34%



Reef corals



Sharks and rays 31%



Selected crustaceans\*

27%



Mammals

25%



Birds

14%

Source: IUCN Red List of Threatened Species















<sup>\*</sup>Assessed species include lobsters, freshwater crabs, freshwater crayfishes and freshwater shrimps





## Different starting point

The Living Planet Index (LPI) tracks the abundance of mammals, birds, fish, reptiles, and amphibians across the globe.



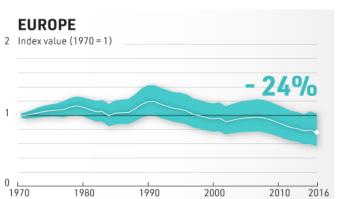


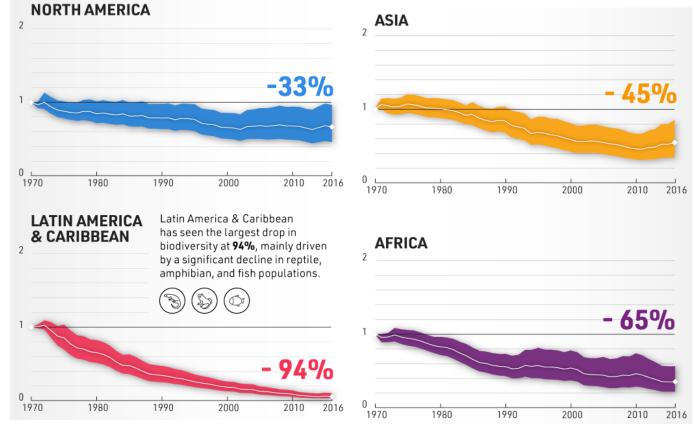






Between 1970 and 2016, vertebrate population sizes dropped by 68% on average worldwide. However, this rate of this loss varies from region to region.





















# Water pollution & scarcity











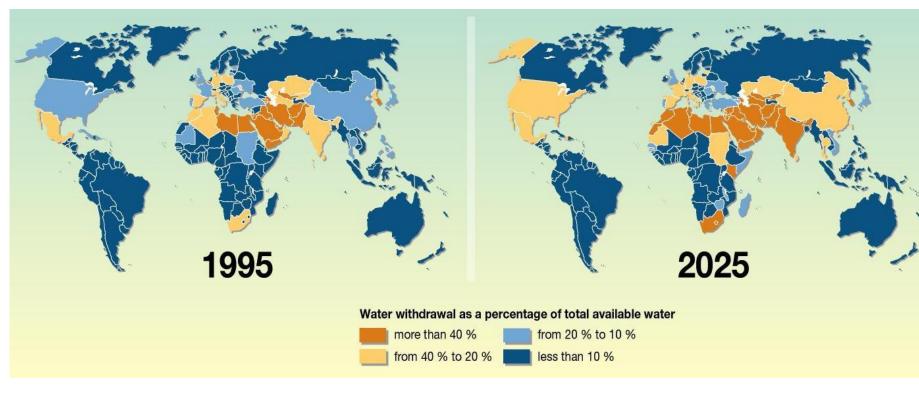






## **Global water stress**

 Only ~2.5% of the available water is fresh and only 1/3 of this is in liquid form.



Source: http://www.unep.org/dewa/vitalwater/article141.html

















## Global water stress

- 3.4 million people die due to lack of clean drinking water.
- 1 billion people do not have enough water.
- 4.5 billion people live in the proximity <50 km from a problematic water resource (polluted, drying).
- By 2030 more than half of humans will suffer from water deprivation.
- By 2050 the global need for water will be increased by 55%.









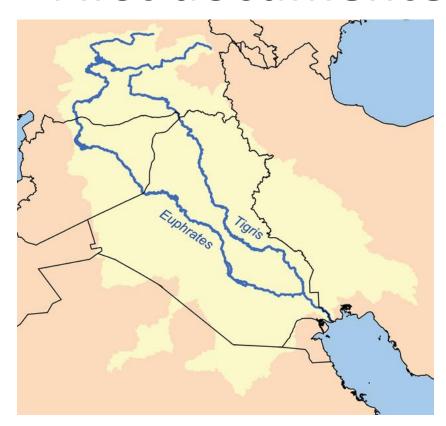








## First documented water war



- The rivers are the Tigris and Euphrates have an annual flooding. The flooding deposits silt, which is fertile, rich, soil, on the banks of the rivers every year.
- Lagaš and Umma were two Sumerian cities located 18 miles apart.
- Eanatum of Lagaš settles the border with En-akale of Umma that causes Umma to build up disastrous debt in agricultural wealth. A later king of Umma, Ur-lumma, does not repay this debt but diverts water from the canal and attacks the Eanatum.
- "Eanatum, ruler of Lagaš, went into battle", reads an account carved into an ancient stone cylinder, and "left behind 60 soldiers dead on the bank of the canal."

https://cdli.ox.ac.uk/wiki/doku.php?id=umma lagash border conflict











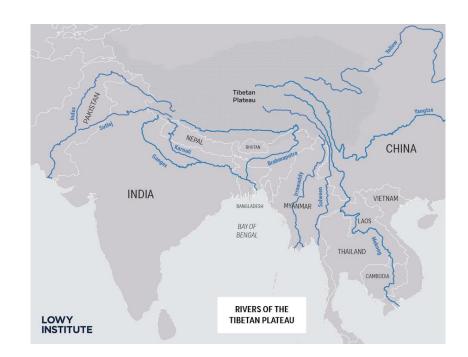






## The geopolitics of water in Asia

- China has ownership over Tibet's waters, where seven of South Asia's biggest rivers starts – the Indus, Ganges, Brahmaputra, Irrawaddy, Salween, Yangtze and Mekong.
- These rivers flow into Pakistan, India, Bangladesh, Myanmar, Laos and Vietnam.
- 718 B m3 of surface water per yr flows out of the Tibetan plateau and the Chinese-administered regions of Xinjiang and Inner Mongolia to neighbouring countries.
- 48% of this water runs directly into India.
- On the Salween, the Upper Mekong, Upper Yangtze and the Brahmaputra China plans to build 120 gigawatts of new hydropower plants (in total more than any other country has built in its entire history).



https://www.lowyinstitute.org/

















# **Poverty & inequality**

















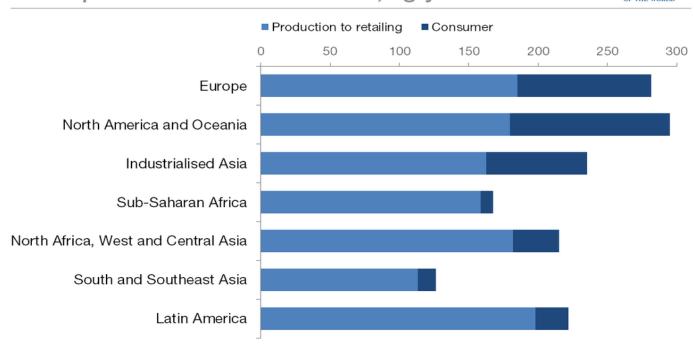
## **Food waste**

### Which regions waste the most food?

COMMITTED TO IMPROVING THE STATE

WORLD ECONOMIC

Per capita food losses and waste, kg/year



Source: The Food and Agriculture Organization of the United Nations (FAO)









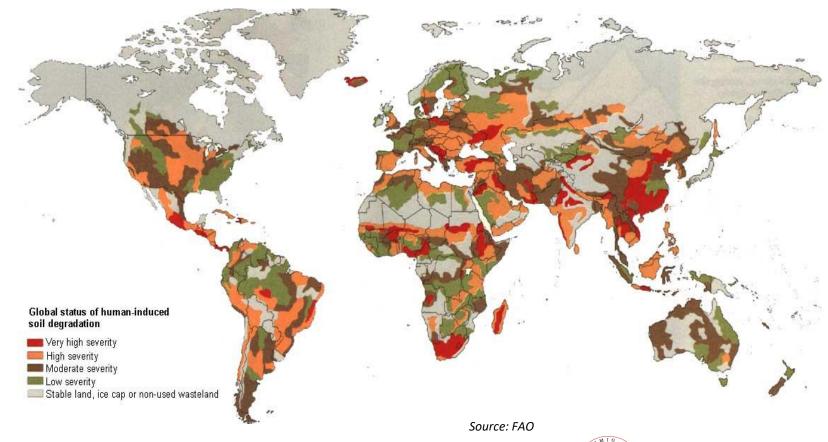








## Soil degradation











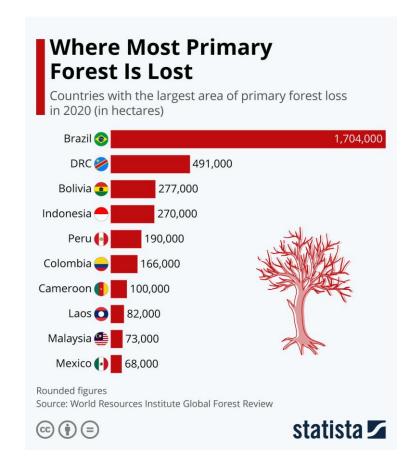


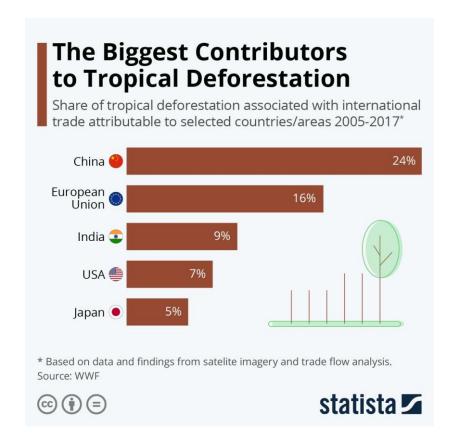




# HIGH 5

## **Deforestation**





















## What can we do?















## **SDGs**



- Backed up by a set of 169 detailed Targets
- Negotiated over a two-year period at the United Nations
- Agreed to by nearly all the world's nations, on 25 Sept 2015







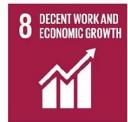






























Source: https://www.undp.org/sustainable-development-goals









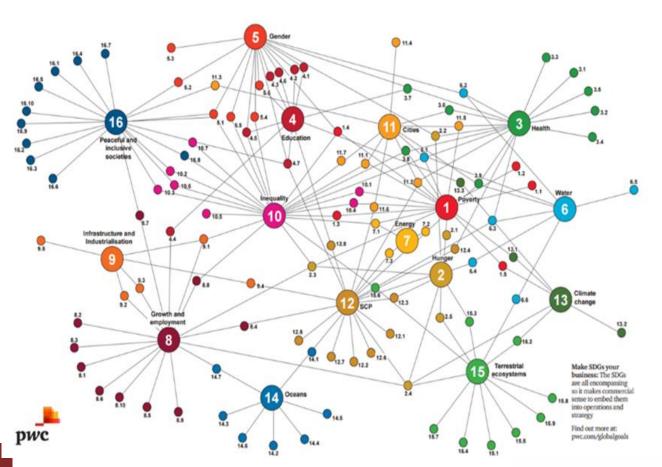








## Integration of the SDGs





Source: https://www.undp.org/sustainable-development-goals













## **SDG Flashcards**

 SDG Flashcards contain more than 200 questions relevant to the four dimensions - social, worldview, ecological, economic- whole systems approach to sustainability to collaboratively identify actions and solutions aimed at implementing the global goals in ways that are relevant to their lives and their communities.





Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, halt biodiversity loss & land degradation and reverse it

Source: Gaia Education

Gaiaeducation

About 80% of human diet is provided directly by plants. Current dietary habits result in only 3 cereal crops (rice, maize and wheat) providing 60% of human energy intake. Reversing desertification by the regeneration of grasslands and forests, as well as greening the deserts could offer a galvanizing goal of large-scale ecosystem regeneration in response to climate change and resource depletion

While life has intrinsic value and not just utilitarian value, it is still striking that, of the 80,000 tree species we know, only 1% have been studied for their potential use. Humans have contributed to deforestation for more than 12,000 years. The world's forests are now diminished to only 31.7% of the total land mass. The rate of deforestation has dropped from 7.3 million hectares in 1990, to 3.3 million hectares per year in 2015.

What are the small steps on which we could collaborate at the scale of our community or city to make them more permeable and attractive habitats for a greater range of species and biodiversity?

What is the role of primary, secondary and higher education in promoting an attitude towards the rest of nature which is not only based in utilitarian (service to us) value, but includes a deeper understanding of the intrinsic value of all life?

How can you challenge private-sector unsustainable practices of production of agricultural commodities such as palm oil, soy, paper and beef products with the view of decelerating the pace of deforestation?

Using the internet as an information resource, could you draw a mind-map of how habitat loss, fragmentation, overexploitation, invasive species, pollution and climate change, interact to speed up biodiversity loss?

About 1.6 billion people's livelihood depends on forests, including some 70 million indigenous people. 2.6 billion livelihoods directly depend on agriculture, while more than half of our agricultural lands are affected by soil degradation. We all depend on the food they provide! While the list of species under international protection continues to grow, since 1999, at least 7000 species of animals and plants have been reported in illegal trade affecting 120 countries.

As of 2015, over 23,000 species of plants, fungi & animals face extinction. Microorganisms & invertebrates are crucial to healthy ecosystems' functions, yet remain poorly understood and their diversity uncatalogued. By 2016, protected Key Biodiversity Areas (KBA) cover only 16.6% of terrestrial, 18.1% of freshwater and 20.1% of mountain areas. Increasing the size of KBAs is vital to protecting species and functional biodiversity of land ecosystems.



















## Addition information about SDGs

- Overview of indicators including the metadata and explanations https://unstats.un.org/sdgs/indicators/database/ and https://unstats.un.org/sdgs/indicators/Global%20Indicator%20Framework%20after%202020%20review\_Eng.pdf
- Country profiles https://country-profiles.unstatshub.org/
- UN Data catalog http://www.sdg.org/#
- UN, GRI and PwC reporting guide https://www.globalreporting.org/resourcelibrary/GRI\_UNGC\_Business-Reporting-on-SDGs\_Analysis-of-Goals-and-Targets.pdf
- Overview of the SDG related global data https://sdg-tracker.org/
- SDG Report 2019 https://www.sustainabledevelopment.report/
- Voluntary national review results https://sustainabledevelopment.un.org/content/documents/26136Estonia\_Main\_messages\_VNR\_Estonia\_2020\_700.pdf
- Estonia specific tool https://tamm.stat.ee/

















# The end





# **Circular Economy**















#### **Introduction to Circular Economy**



#### Circular Economy

- presents a sustainable way both to produce goods and services and to contribute to the development of economies
- ☐ is based on 3 basic principles:
- 1) preserving and valuing natural capital: controlling finite stocks and balancing flows of renewable resources;
- 2) optimizing resources productivity through the circulation of products, components and materials, both in technical and biological cycles;
- 3) enhancing the effectiveness of the system by reducing harm to human welfare, regarding for instance, food, mobility, shelter, education, health and entertainment, and managing externalities related to land use, air, water and noise pollution, release of substances and climate change.











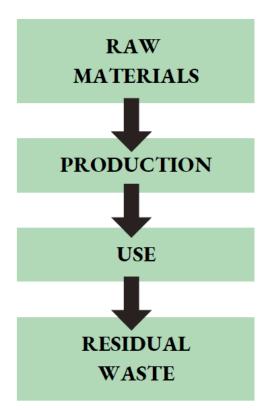


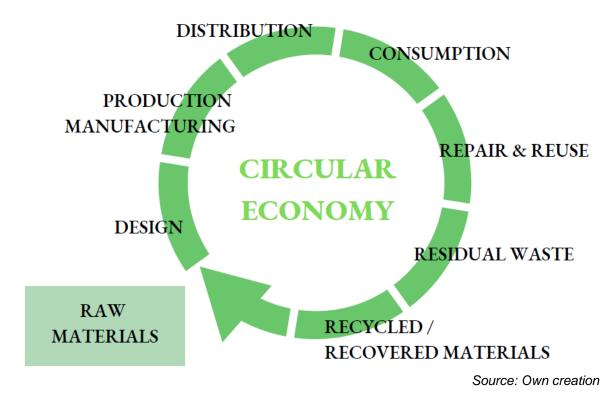


## From a Linear Economy to a Circular Economy



#### LINEAR ECONOMY













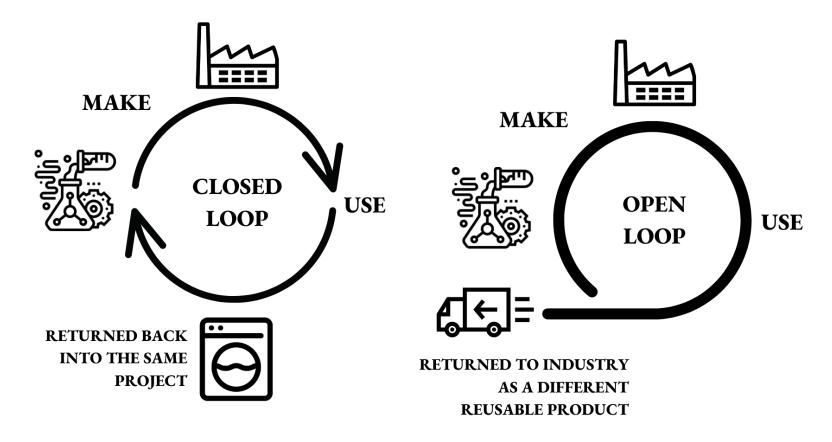






## From a Linear Economy to a Circular Economy





Closed Loop vs. Open Loop Recycling

Source: Own creation









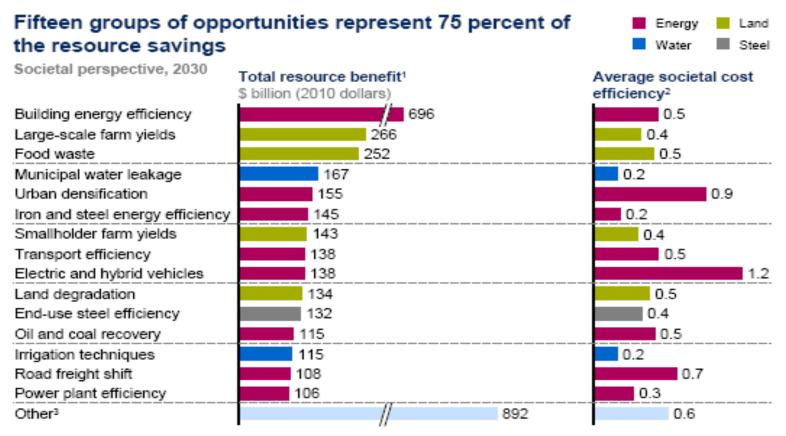






#### **Resources savings**





- 1 Based on current prices for energy, steel, and food plus unsubsidized water prices and a shadow cost for carbon.
- 2 Annualized cost of implementation divided by annual total resource benefit.
- 3 Includes other opportunities such as feed efficiency, industrial water efficiency, air transport, municipal water, steel recycling, wastewater reuse, and other industrial energy efficiency.

SOURCE: McKinsey analysis

















## Circular Economy can be applied in:

industries

practical life (individuals and families)

companies and institutions

cities and society

social innovation purposes

in the relation all together















#### **Textiles Industry case study**



..."textile production is a major contributor to climate change and produces an estimated 1.2 billion tones of  $CO_2$  equivalent per year. According to the UK Parliament's Environmental Audit Committee report "Fixing Fashion", this is more than the total produced by international flights and maritime shipping combined.

Textile production also entails substantial resource use: for example, to produce 1 kg of cotton takes between 10,000 and 20,000 liters of water. More alarmingly, the World Bank reckons 20% of global water pollution is caused by textile processing, making it the second biggest polluter of freshwater resources on the planet."

RECYCLING RATES FOR USED TEXTILES:

26% IN EUROPE

15%

12% IN THE USA

4%
IN HONG KONG

Source: https://www.bir.org/the-industry/textiles







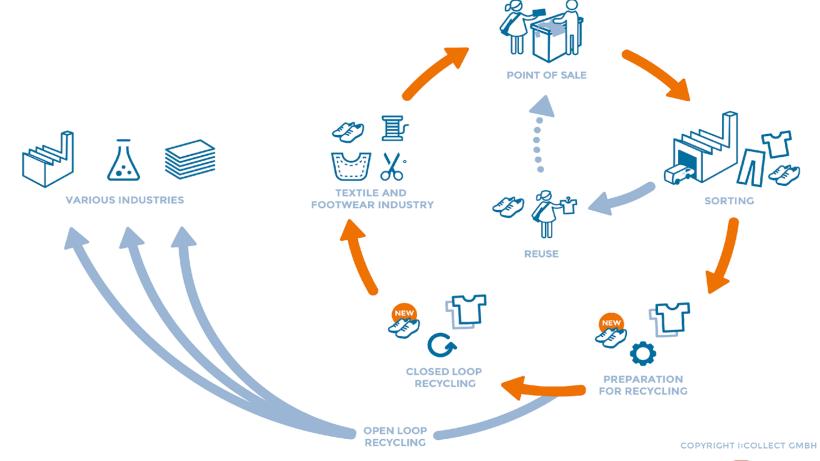




























#### Important is...

the choice of the most sustainable production materials, which not pollute the environment, biodegradable and with the most appropriate production processes

warn about the best ways of dealing with textiles use, such as washing textiles, how to reuse them or to be able to give or sell them in second hand

































## **Circular Economy & Social Innovation**



Some international stores have already started campaigning on **sustainable clothes** (e.g. C&A, H&M, Mango, Zara) **or reuse/recycling** (e.g.: Intimissimi, H&M or Women Secret that give discounts on the exchange of used clothes)

ıntımıssımı





https://commons.wikimedia.org/wiki/File:Intimissimi\_vector\_logo.svg https://commons.wikimedia.org/wiki/File:H%26M-Logo.svg https://www.c-and-a.com/uk/en/corporate/company







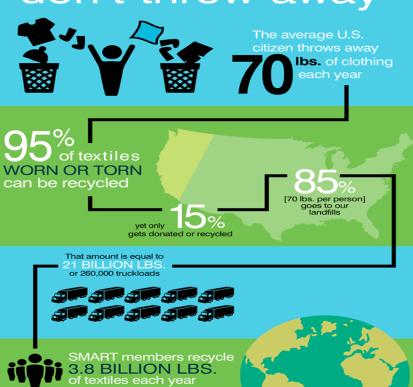








# donate recycle don't throw away























#### THE LIFE CYCLE OF SECONDHAND CLOTHING





#### What happens to your recycled used clothing?

Once a resident determines that their clothing, shoes, handbags, or household textiles have reached the end of their useful life, materials are collected by Simple Recycling and collected clothing is sorted and graded for condition.

jobs nationally.2

10-20%

Top quality materials are sold to local thrift stores where they create access to low cost clothing and jobs for local residents.

THRIFT

STORE

80%

The vast majority of clothing collected is not resaleable in the U.S. so it is further sorted for international export or broken down for raw materials.

45%

Reused and Repurposed Majority is exported as secondhand clothing.

30%

Recycled and Converted Reclaimed wiping rags are used in various ways as industrial and residential absorbents.





Recycled into Fiber Post-consumer fiber is used to make home insulation, carpet padding, and raw material for the automotive industry.

Only 5% ends up as waste.



The textile recycling process follows the conventional recycling maxim of

Thrift industry employs nearly 100,000 workers in the U.S. with over \$1 billion

wages paid. In addition, private sector recyclers create an additional 15,000 to 20,000

Reduce, Reuse, Recycle!

- <sup>1</sup> EPS 2009 Federal MSW waste study; 3.8 billion lbs. recovered divided by 2010
- U.S. Census Population 310 million

  2 "Textile Recycling in the U.S." Report submitted to SMART by Dr. Jana Hawley

















#### BENEFITS OF RECYCLING

The recovery and recycling of textiles provide both environmental and economic benefits by:

Reducing the need for landfill space. Certain synthetic fiber products do not decompose, while natural fiber such as wool does decompose but produces methane which contributes to global warming.

**Reducing pressure on virgin resources.** This includes materials traditionally used in textiles such as cotton and wool, as well as oil and other chemicals employed to produce synthetic fibers.

Reducing pollution.

Reducing water and energy consumption.

Reducing demand for dyes and fixing agents. This, in turn, minimizes the problems caused by their use and manufacture.















#### Challenge



Problem: Circular Economy applied to your group Topic Looking for:

- i) Integrated solution to be applied by
- consumers / families in practical life (individuals and families)
- producers, firms and/or institutions
- cities and society

and

ii) design a circular scheme that illustrates your integrated proposal.

















# The end



Project no. 2019-1-PL01-KA203-065784



# Entrepreneurship

**Agile Management** 















#### Entrepreneur

"An entrepreneur buys at prices defined in the present to sell at uncertain prices in the future. The entrepreneur subsists on an uncertain income, unlike another worker who has a fixed salary."

Cantillon, 1755

An invention makes it possible to produce something more cheaply. It first gives a profit to entrepreneurs... and this profit... is an elusive sum, which entrepreneurs grasp but cannot hold. [It] slips through their fingers and bestows itself on all members of society. Were it not for that interval, entrepreneurs as such would get nothing, however much they might add to the world's productive power.

Clarke (1899, 1907)



Entrepreneurial activity involves
(a) risk-taking, (b) energetic
activity, (c) individual
responsibility, (d) money as a
measure of results, (e)
anticipation of future possibilities,
and (f) organizational skills.

McClelland (1961)

Uncertainty taker

Dynamic Theory

















# HIGH 5

#### Entrepreneur

"An entrepreneur is someone who specializes in taking judgmental decisions about the coordination of scarce resources."

Casson (1982, 2003)

Roles of the entrepreneur in the history of economic theory include: 1) assumes risk associated with uncertainty, 2) supplies capital, 3) innovator, 4) decision maker, 5) leader, 6) manager, organizer and coordinator, 8) owner, employer of factors production, 10) contractor, 11) arbitrager, 12) allocator resources.

Hebert and Link (1988)

The entrepreneur is characterized principally by innovative behaviour and will employ strategic management practices in the business.

Carland et al. (1984)

Behavior School

Combination















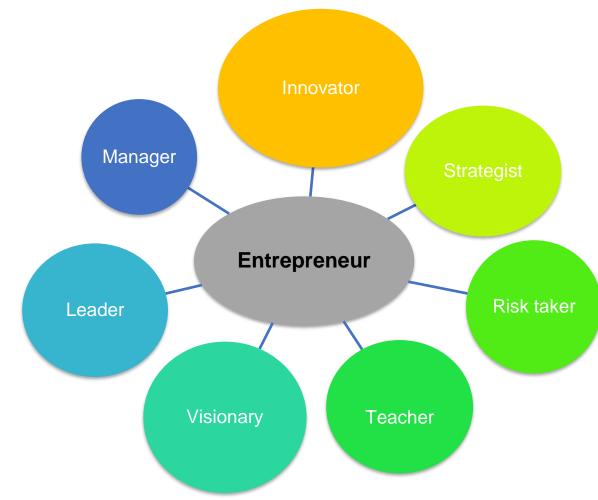




#### What is a Entrepreneur?

Entrepreneurship is a way of thinking, reasoning, and acting that is opportunity obsessed, holistic in approach and leadership balanced.

Timmons and Spinelli (2008)



Source: Own creation













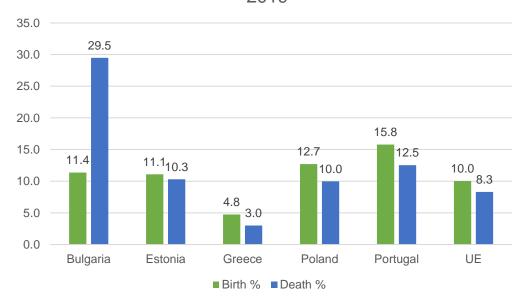




2019	Birth %	Death %	Enterprises
Bulgaria	11,4	29,5	348.667
Estonia	11,1	10,3	82.263
Greece	4,8	3,0	717.680
Poland	12,7	10,0	2.022.248
Portugal	15,8	12,5	930.303
UE	10,0	8,3	23.168.929

Source: Eurostat

Birth and death businesses rates in the EU - 2019



Source: Eurostat



















#### The 4 Agile Values



Source: productplan.com

# Analyze Plan Design Build Test Deploy Agile Project Timeline Requirements Customer Technology

Turnover

Innovation

Source: undefined.photos

Change









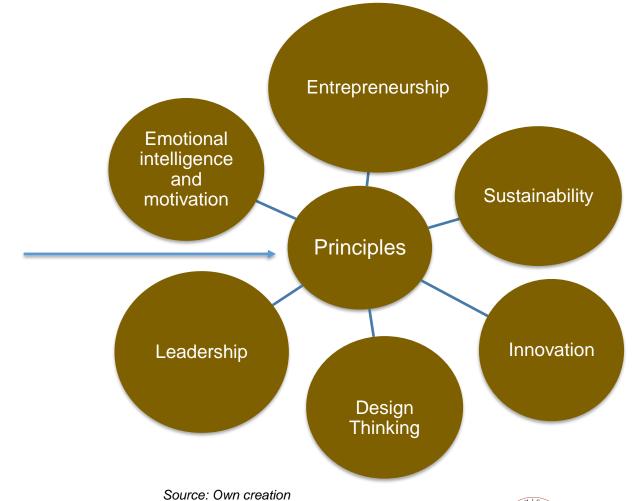








Agile Management





















Source: tataandhoward.com

Support and development concepts

Agile Management

Enter your subhead line here

Scrum Product Owner

Team

SPRINT
1-4 WEEKS

Sprint Planning
Product Sprint Planning
Meeting
Meeting
Backlog

Sprint Planning
Backlog

Finished
Work

Objectives and key-results



Source: planview.com





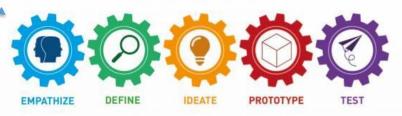


#### Kanban Methodology

Backlog	To Do	In Progress	Testing	Done
Feature 10 hrs 10 hrs HIGH Medium Update 4 hrs Low Hedium Content 2 hrs HIGH				

Source: agilecockpit.com

#### **DESIGN THINKING**



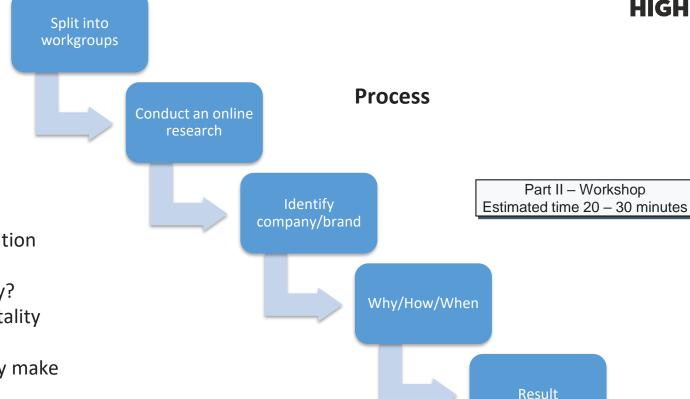
Source: innos.at











#### **Objectives:**

- Identify reasons that motivated the change
- Define whether it was an innovation or an adaptation
- The importance of design thinking in the process
- Has the company become more sustainable? Why?
- What change: finance approach, leadership, mentality
- Impact of the change
- Why were they, entrepreneurs, and what did they make different
- Did they consider circular the economy in the process

















# Agile Management

#### Group discussion of the findings:

- Present the case
- Explain their choice
- Were they innovators or adapted to their needs
- The result
- Good examples of measures taken by companies
- Why design thinking is so important in the process
- The importance of sustainability in the future of the companies
- Why the circular economy is important in the production process
- The importance of being an entrepreneurship

Part II – Workshop Estimated time 20 – 30 minutes

















# The end





# **Corporate Social Responsibility**

















What is CSR
(ang: Corporate
Social
Responsibility)?











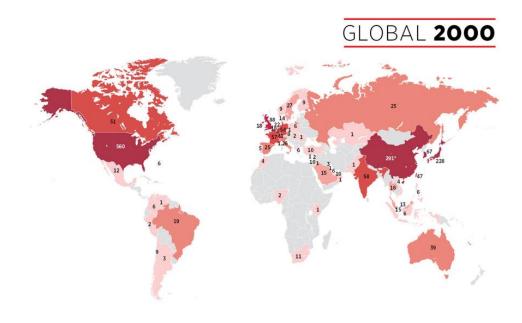








# **Corporate Social Responsibility**



Source: Forbesindia

A multinational is a corporate organization that owns and controls the production of goods or services in at least one country other than its home country that can conduct business worldwide and has as its main objective to make a profit. (EX: Exxon (U.S.), Chevron (U.S.), Saudi Aramco (Saudi Arabia), Gazprom (Russia), China National Petroleum Corporation (China), Equinor (formerly Statoil of Norway), TOTAL (France), and ENI (Italy).

















Iт	н	E TOP 100			_				
	•••	- 101 100						COUNTRY CO	DES
1	•	ICBC	CN	51	▼.	SIEMENS	GE	ARGENTINA	AD
2	•	CHINA CONSTRUCTION BANK	CN	52	•	BOEING	US	AUSTRALIA.	AU
3	•	JPMORGAN CHASE	US	53	•	AMAZON.COM	US	AUSTRIA	AS
4	•	BERKSHIRE HATHAWAY	US	54	•	TD BANK GROUP	CA	BAHRAIN BELGIUM	BN BE
5		AGRICULTURAL BANK OF CHINA	CN	55	•	PROCTER & GAMBLE	us	BERMUDA	BL
6	•	BANK OF AMERICA	US	56	•	ING GROUP	NE	BRAZIL	BR
7	-	WELLS FARGO	US	56	Ť	POSTAL SAVINGS BANK OF CHINA	CN	CANADA	CA
8	À	APPLE	US	58	Ă.	HONDA MOTOR	JA	CHILE	CH
9	Ţ	BANK OF CHINA	CN	59	7	SUMITOMO MITSUI FINANCIAL	AL	COLOMBIA	CN
10	Ä	PING AN INSURANCE GROUP	CN	60	÷	GOLDMAN SACHS GROUP	US	CYPRUS	CY
								CZECH REPUBLIC	CZ
11	<b>A</b>	ROYAL DUTCH SHELL	NE	61	٠	INTESA SANPAOLO	IT	DENMARK EGYPT	DE
12	•	TOYOTA MOTOR	JA	62	4	INDUSTRIAL BANK	CN	FINLAND	FI
13	•	EXXON MOBIL	US	63	•	NOVARTIS	SZ	FRANCE	FR
14	•	SAMSUNG ELECTRONICS	КО	64	•	GLENCORE INTERNATIONAL	SZ	GERMANY	GE
15	•	AT&T	US	65	▼	BANCO BRADESCO	BR	GREECE	GR
16	<b>A</b>	VOLKSWAGEN GROUP	GE	66	•	PRUDENTIAL	UK	HONG KONG HUNGARY	HK
17		HSBC	UK	67	•	FORD MOTOR	US	INDIA	IN
18	•	VERIZON COMMUNICATIONS	US	67	•	IBM	US	INDONESIA	ID
19		BNP PARIBAS	FR	69	•	CVS HEALTH	US	IRELAND ISRAEL	IR IS
20	•	MICROSOFT	US	70	•	SHANGHAI PUDONG DEVELOPMENT	CN	ITALY	IS IT
21	Ä	CHEVRON	US	71	÷	COMMONWEALTH BANK	AU	JAPAN	JA
22	Ŧ	ALLIANZ	GE	72	÷	WALT DISNEY	US	JORDAN	JO
23	Ä	ALPHABET	US	73	÷	PRUDENTIAL FINANCIAL	US	KAZAKHSTAN	KZ
	<b>\$</b>		US	73			RU	KENYA KUWAIT	KE
24		WALMART		:	<u>*</u>	ROSNEFT		LEBANON	LE
25	•	CHINA MOBILE	HK	75	<b>A</b>	ENEL	IT	LUXEMBOURG	LU
26	•	TOTAL	FR	76	•	CITIC PACIFIC	HK	MALAYSIA	MA
27	•	SINOPEC	CN	77	•	FACEBOOK	US	MEXICO MONACO	MX MC
28	•	UNITEDHEALTH GROUP	US	70	•	METHE	LIC	MORDCCO	MO
29	•	DAIMLER	GE	Fort	oes (	Global 2000: The world's biggest con	npanies	NETHERLANDS	NE
30	<b>A</b>	PETROCHINA	CN	80	<b>A</b>	SAIC MOTOR	CN	NIGERIA	NI
31	•	BANCO SANTANDER	SP	81	•	ALIBABA	CN	NORWAY OMAN	NO OM
32		CHINA MERCHANTS BANK	CN	82		BASE	GE	PERU	PE
33	•	AXA GROUP	FR	83	Ā	RELIANCE INDUSTRIES	IN	PHILI PPINES	PH
34	•	COMCAST	US	84	Ŧ	CHINA STATE CONSTR ENGINEERING	CN	POLAND	PL
35	Ä	CHINA LIFE INSURANCE	CN	85	÷	CHINA CITIC BANK	CN	PORTUGAL GATAR	PO GA
36	7	BP INSORAITEE	UK	86	i.	SONY	JA	RUSSIA	RU
37	÷	MITSUBISHI UFJ FINANCIAL	JA	87	÷	WESTPAC BANKING GROUP	AU	SAUDI ARABIA	SU
38	÷	BANK OF COMMUNICATIONS	CN	88	÷	BANK OF NOVA SCOTIA	CA	SINGAPORE	SI
				0.0				SOUTH AFRICA SOUTH HOREA	SA
39	•	SOFTBANK	JA	88	<b>A</b>	BRITISH AMERICAN TOBACCO	UK	SPAIN	SP
40	•	BMW GROUP	GE	90	▼.	CHINA MINSHENG BANKING	CN	SWEDEN	SW
41	•	ANHEUSER-BUSCH INBEV	BE	91	•	EQUINOR <sup>1</sup>	NO	SWITZERLAND	SZ
42	•	ROYAL BANK OF CANADA	CA	92	•	AIA GROUP	HK	TAIWAN THAILAND	TA TH
43	•	GAZPROM	RU	93	•	ROCHE	SZ	TURKEY	TU
44	_	PFIZER	US	94	•	LLOYDS BANKING GROUP	UK	UNITED ARAB EMIRA	
45	•	ITAÚ UNIBANCO	BR	95	$\mathbf{A}$	ENI	IT	UNITED KINGDOM	UK
46	•	NIPPON TELEGRAPH & TEL	JA	96	•	CHARTER COMMUNICATIONS	US	UNITED STATES VENEZUELA	US VZ
47	À	SBERBANK	RU	97	₹	NISSAN MOTOR	JA	VIETNAM	VE.
48	Ŧ	NESTLE	SZ	98	Ä	LUKOIL	RU		
49	Ä	INTEL	US	99	Ţ	UNITED TECHNOLOGIES	US	▲ UP ▼ DOWN	
50	7	MORGAN STANLEY	US	100		BAYER	GE .	● UNCHANGED ● NEW	
30		PIORGAN STANLET	us	100	•	DATER	GE.	ASIAN COMPANIES ARE IN RED TYPE	

- The top 10 companies are all Chinese and North American
- The Asia-Pacific region leads with 792 companies, 40% of the entire list
- The growing importance of the Chinese economy in the world
- The importance of oil companies is still very large

Source: Forbesindia Sept. 2018









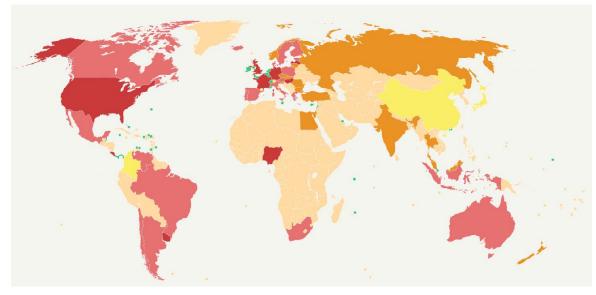








- Multinational firms shift profits to tax havens to reduce their global tax bills. (EX: Ireland, Bermuda).
- Close to 40% of multinational profits are shifted to tax havens each year
- Globally, more than \$900 billion (2018) in profits were shifted to such tax havens by multinationals from all countries.



Source: missingprofits.world



















#### BUSINESS ECOSYSTEM

All along the value chain, Legrand aims to address the expectations of business stakeholders, suppliers, users and partners, in order to ensure progress for all in strict compliance with ethical rules.



Provide

sustainable

solutions



























the greatest respect for human rights, diversity, safety, wellbeing, health and talent among its employees and



















All over the world, Legrand is committed to ensuring

















and diversity

₫

⊤(Ĝ)



















Legrand's responsibility is to limit the impact of its activities on the environment, and to be a benchmark player in the onset of a low carbon





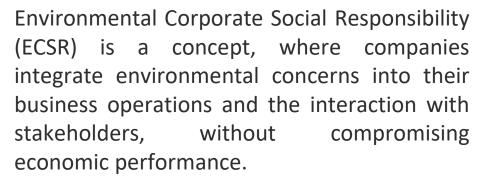












Source: Legrand Companie















#### Coca-Cola (areas of focus)

- Sustainable Packaging
- Water Stewardship
- In Our Products
- Sustainable Agriculture
- Climate Solutions
- Product Quality & Safety



Through our 2030 Water Security Strategy, we're focused on increasing water security through a context-based approach to water replenishment, advocacy for smart water policies and responsible water use across our operations and supply chain.

WATER LEADERSHIP ()



We offer a portfolio of drinks for consumers' beverage needs and preferences, and are continuing to seek opportunities to reduce added sugar. We rolled out a new and improved formulation of Coca-Cola Zero Sugar.

TOTAL BEVERAGE PORTFOLIO ①



We ramped up investments in partnerships with NGOs and innovators like The Ocean Cleanup in 2021. We also set a new industry-leading goal to significantly boost our use of reusable packaging by 2030, which aims to drive collection rates while simultaneously reducing our carbon footprint.

WORLD WITHOUT WASTE ()



Building on the progress of decarbonizing our system by achieving our 2020 climate goal, our 2030 science-based target is to reduce absolute greenhouse gas emissions by 25% against a 2015 baseline.

CLIMATE ()



In 2021, we took action to create a better shared future through investments in economic empowerment; diversity, equity and inclusion; and giving through The Coca-Cola Foundation.

PEOPLE & COMMUNITIES ()



Our Principles for Sustainable Agriculture advance sustainable sourcing of our agricultural ingredients at the farm level, taking a longer-term perspective to reflect our expanding portfolio, increasingly diverse supply chains and the most recent science to support farmer livelihoods and ensure continuity of supply.

Source: Coca-Cola Companies













HIGH 5





ESG stands for environmental, social and governance, the three most important nonfinancial factors for a company. It is a strategic and analysis approach that is very widely used by institutional investors and analysts to evaluate sustainability performance. In fact, according to Janus Henderson Investors, a British global asset manager, ESG is today "the bedrock of sustainable and responsible investing for any company". Society and stakeholders are increasingly asking for information on how companies manage issues relating to sustainability.



Source: Iberdrola Companie

















## The Ten Principles of the UN Global Compact



Source: United Nations







The United Nations Global Compact is a non-

binding United Nations pact to encourage

businesses and firms worldwide to adopt

sustainable and socially responsible policies

and to report on their implementation. The

UN Global Compact is a principle-based

framework for businesses, stating ten

principles in the areas of human rights, labor,

the environment and anti-corruption.











#### What is Greenwashing???

- It's a behaviour or activity that makes people believe that a company is doing more to protect the environment than it really is.
- Is when an organization spends more time and money on marketing itself as environmentally friendly than on actually minimizing its environmental impact.

It's a deceitful marketing gimmick intended to mislead consumers who prefer to buy goods and services from environmentally conscious brands.

















#### 15 EYE-OPENING CORPORATE SOCIAL RESPONSIBILITY STATISTICS

How do customers know if companies do not lie about social corporation responsibility?

- 1. 70% of Americans believe it's either "somewhat" or "very important" for companies to make the world a better place
- 2. 77%consumers are motivated to purchase from companies committed to making the world a better place, while 73% of investors state that efforts to improve the environment and society contribute to their investment decisions
- 3. 41% of millennial investors put a significant amount of effort into understanding a company's CSR practices, compared to just 27% of Gen X and 16% of baby boomers
- 4. 25%of consumers and 22% of investors cite a "zero tolerance" policy toward companies that embrace questionable practices on the ethical front
- 5. A majority of American consumers (55%) believe it's important for companies to take a stand on key social, environmental, and political issues

















## The end





## **High Impact Presentations**















## HIGH 5

#### What is a presentation

- Verbal communication
- + some supporting tools

















### The power of verbal communication

Martin Luther King, I have a dream (1.48)



















### The importance of verbal communication

Verbal communication has more impact than written! We all remember something that "someone said"

- In our everyday life we communicate
- In various forms

















### The importance of verbal communication

- More direct communication of ideas
- Interpersonal communication
- Less formal, less rigid
- Immediate reactions, we may observe others as we speak
- More effective in solving problems and conflict resolution

















#### What it means ....

Usually face-to-face communication

• The audience can see us

#### What is important

- What we say
- How we look

#### So, for impact it is important

- The speaker must show belief in their words
- The presentation must be relevant to audience needs

















#### Common problems in verbal presentations

We all communicate verbally on a daily basis

Verbal communication is a natural activity

But when we speak in front of an audience stress changes the way we come across

Some almost present a different personality than their real one

We don't have enough time to say everything we wish

















#### What is important in a presentation

To convey the central message

To maintain the audience's attention To pursue audience engagement

To let our personality come across

#### These imply ....

- Expressing our ideas clearly
- Empathy, understanding the reactions of the audience
- Avoiding information overload

















#### Who is a good speaker?

Someone with correct grammar and syntax?

or ...

Someone who presents clearly a message

Provides relevant and good examples

Helps the audience follow

It requires practice!

















#### Preparing a presentation

#### **Example to avoid**

#### Structure

- Introduction
- Overview
- What others do
- Our proposal
- Conclusions

Used even in conferences Audience falls asleep

















#### **Proposed structure**

Strong entrance

1 central message, first!2-3 sub-messages

The audience cannot follow several messages in the same presentation

We do not have time to say all we wish

Supporting tools for explanations

- Examples
- Video, images, slides, animations
- Stories

Strong closure















#### Tell a story

Tell a story (people love stories not objects)

Create strong images

Ok to use some clichés

Supporting tools

Non-verbal communication

- Effective during pauses
- Can create feelings
- Can change perceptions
- Not suitable in all cases

















#### **Audience participation**

Relevant examples

Rhetorical questions

Must be relevant to the audience

Address each person individually

















#### The importance of eye contact

The audience needs to feel that we are addressing them

It shows confidence in what we say

In everyday communication we look at our listener when we say something important

This is a good rule for verbal presentations too

- Not always stare at the listener
- But at the beginning and end of an important message

















#### The importance of pauses

Some speakers feel they speak too fast

This is not necessarily a problem

If the audience understands us

More important to use pauses

- Between important messages
- To allow the audience to digest what we said

















#### 10-20-30 rule for slideshows

10 slides 20 minutes Font size 30+

Avoid "death by powerpoint"

















#### **About supporting tools - slides**

Not everything will fit in slides

Use notes

Avoid reading the notes

A presentation should be more than that

The audience can read a paper at home

















#### What to avoid

Don't read the slides!

Don't turn your back to the audience

Use slides for underlining concepts

Emphasis is on verbal communication

Keep notes separately

















#### **Body language**

Less is more

Not many moves and gestures Use our hands like in everyday conversation

About unconscious movements

Avoid some movement

- Don't cross your arms on your chest
- Don't put your hands in your pockets
- Don't walk nervously

#### Breathe!

















## The end





# Pictograms and Design Thinking or Design Thinking and Pictograms

Trends and parallels in prehistoric rock art and the contemporary street art















#### ?Pictograms?



Pictograms are the oldest tool for visualization of human thoughts

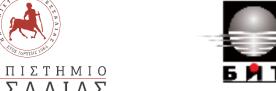














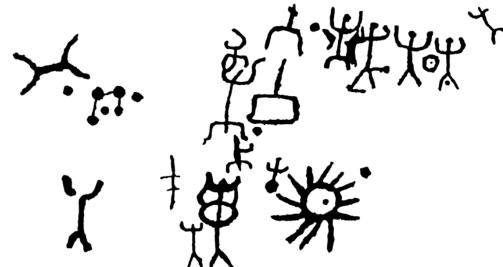


#### One-way Evolutionary Proucese

Oral culture

Pictograms

Writing systems



















#### Culture and Communication Layers

Alphabetic culture

Early writing system culture

Pictogram culture

Oral culture















#### ?Pictograms?



Today we still have a huge amount of pictograms in usage. They are in use in the fields of industry, trade, sport, tourism and everyday life.

The new heyday of the pictogram is related with the technological and industrial development from the past 30 years. The advance of computer software, opportunities to travel, cross-border exchange of goods and services all increased use of pictograms.

































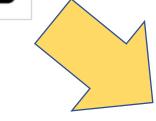


## Types of Pictograms





**PICTOGRAM** 











**LOGOGRAMS** 







#### ?Pictograms – Basic Principles?



- The pictogram is a symbol representing a concept, object or activity by illustration
- The pictogram is directly related to its surrounding environment
- The pictogram should be based on general social and communication conventions
- Every detail can change the meaning
- The pictogram should not contain many different visual elements
- The accumulation of pictograms in our environment must be carefully planned

































Australia

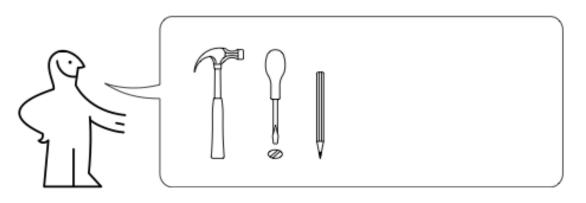
Laos

Qatar

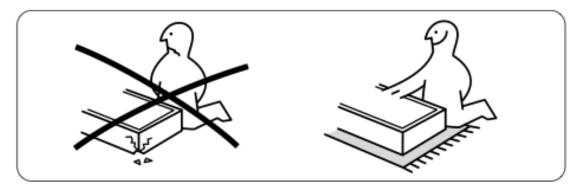


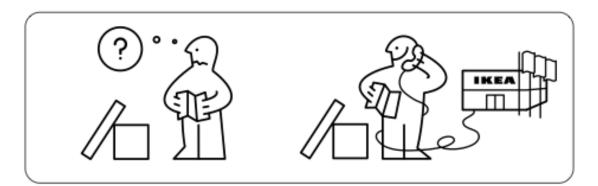






## **GOOD PRACTICES**







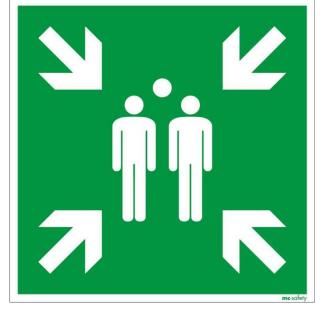








If you present something more complex or abstract a different meaning can arise







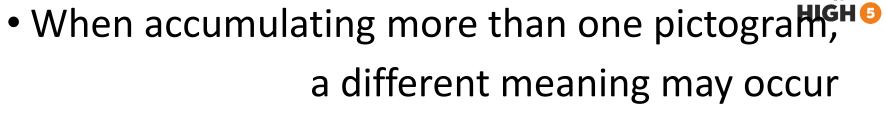














- 2. The street is forbidden for bicycles but not for cars
- 3. The street is forbidden for cars and for bicycles











## COMMUNICATION ISSUES AND SUSTAINABILITY



- HUMANS CONSTANTLY COMMUNICATE WITH SURROUNDING ENVIRONMENT
- IF THE SURROUNDING ENVIROMENT SEND YOU RONG SIGNALS YOU CAN GET EAZILY CONFUSED

 IN FIELDS OF TRANSPORTATION, PRODUCT INSTRUCTIONS, LABOR PROTECTION THE MISUNDERSTANDING IS DIRECTLY RELATED WITH SUSTAINABLE DEVELOPMENT

















# ARE YOU READY TO TRY YOUR PICTOGRAM LITERACY LEVEL







































### Erasmus+ WHAT WILL... IF YOU CAN **NOT** READ THIS???















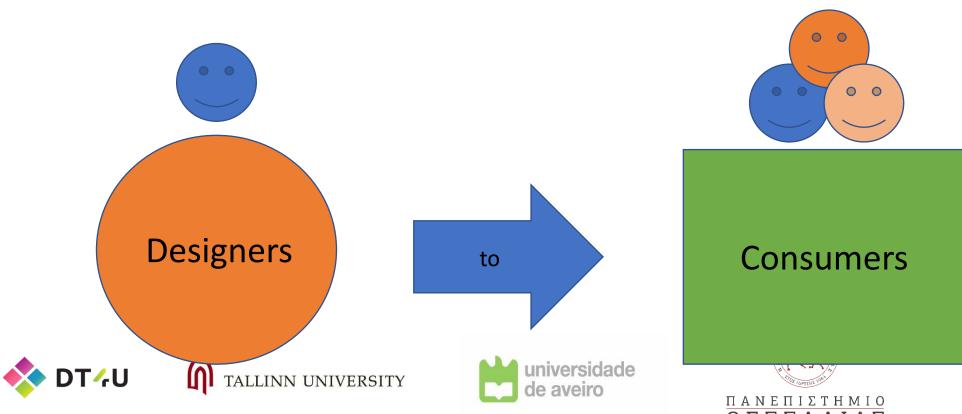
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### Who creates the pictograms?

- Designers from different types of industries and social sectors.
- International standard ISO 7001: Public Information Symbols.



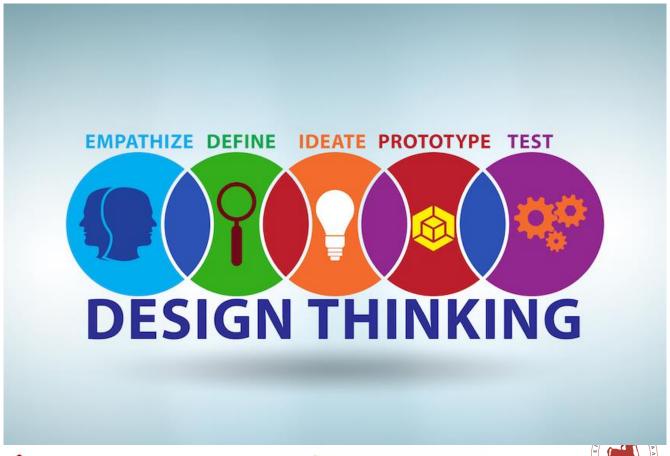






## PICTOGRAMS AND DESIGN THINKING PRINCIPLES













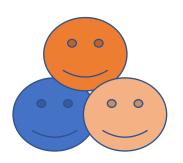




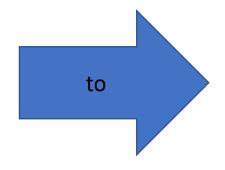


### LETS USE DESIGN TINKING

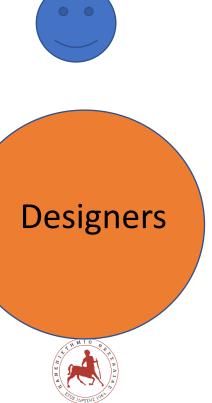












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### **HIGH5** PICTOGRAME EXPERIMENT



Aleksandra



Anna



Ana Rocha





Sotiris



Konstantinos



Жени

Oliver



Kris



Trinu











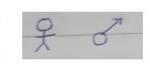














Source: Own creation















#### SO!



The number of pictograms in use is rising from year to year

Soon we will challenge a problems related with so called pictorial literacy and especially iliteracy

OR

We can design the pictogram on principles of Design Thinking –















# READ THE PICTOGRAMS GUESS THE TITLES OF MY FAVOURITE BOOKS



















### The Brothers Lionheart





(Swedish: Bröderna Lejonhjärta) is a children's fantasy novel written by Astrid Lindgren



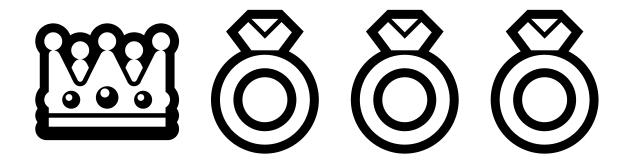






# READ THE PICTOGRAMS GUESS THE TITLES OF MY FAVOURITE BOOKS









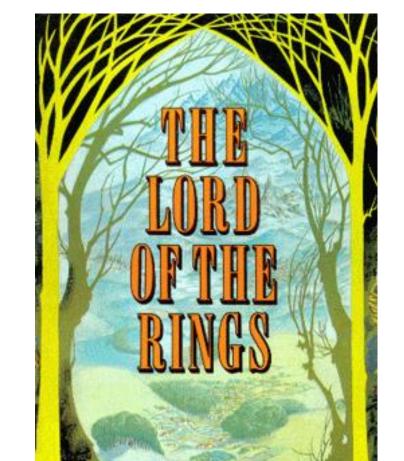












## The Lord of the Rings

The Lord of the Rings is an epic fantasy novel by English author and scholar J. R. R. Tolkien







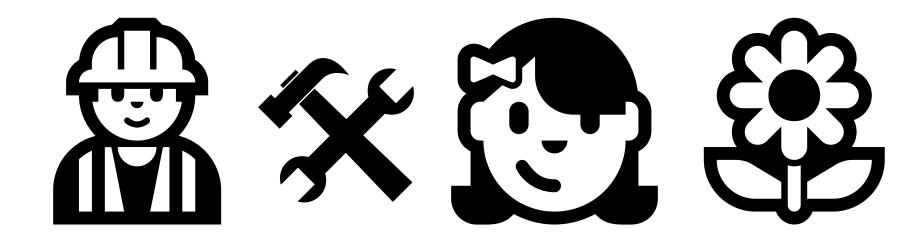






# READ THE PICTOGRAMS GUESS THE TITLES OF MY FAVOURITE BOOKS





















### The Master and Margarita

(Russian: Macтep и Mapraputa) is a novel by Russian writer Mikhail Bulgakov, written in the Soviet Union between 1928 and 1940

















### **NOW IT IS YOUR TURN**

## TRY TO DISCRIBE WITH PICTOGRAMES YOUR FAVOURITE BOOK OR MOVIE

















#### PICTURES SOURCES

- [1] <u>Jessie Kratz</u> (2019) Pictographs, Petroglyphs, "Rock Art," What is the difference? In: <u>Uncategorized</u> [Online, 03.01.2023]
- [2] FreePik: <a href="https://www.freepik.com/free-photos-vectors/pictogram">https://www.freepik.com/free-photos-vectors/pictogram</a> [Online, 03.01.2023]
- [3] Lily Travis (2018) The Difference Between Road Signs Around The World. In: <a href="https://www.frontsigns.com/blog/the-difference-of-world-traffic-signs/">https://www.frontsigns.com/blog/the-difference-of-world-traffic-signs/</a> [Online, 03.01.2023]
- [4] IKEA.BG (2021) <a href="https://bg.manuals.plus/ikea/ikea-boja-installation-manual#axzz7pJrk4oXq">https://bg.manuals.plus/ikea/ikea-boja-installation-manual#axzz7pJrk4oXq</a> [Online, 03.01.2023]
- Steps to Design Thinking in Practice (2020) In: <u>https://www.innovationtraining.org/steps-to-design-thinking/</u> [Online, 03.01.2023]

















### The end