

URBANISM NEXT EUROPE 2021

9-10-11 JUNE, 2021
ONLINE CONFERENCE



Mobility Vision Focused on Sustainable Economy and Social Change

a collaboration between
Embraer & TU Delft

Luciana Ribeiro Monteiro
Embraer NL / Research and Technology Analyst





PEOPLE

- How and how many will travel
- Infrastructure
- Mobility
- Policies
- Behavior



How to develop a Future Vision for Mobility
creatively expressing a desired future

PROSPECTIVE SCENARIOS

DESIGN ROADMAPPING

A large orange circle is positioned on the left side of the slide, partially overlapping the text.

Mobility Issues

Surveillance Innovation

Sustainable Cities

High demand for transport

Rapid emergency response

Participatory Design

.....

Some of the Living Lab Settings....

UAM in Los Angeles

Mobility solutions: car free center

Sustainable manufacturing point in South Africa

Sky ports experience

Waste Management in South Africa

Perception of safety in pandemic times

A Mobility Road Map supported by living lab settings



Embraer, TU Delft,
Sustainability Consultant,
Ulundi Municipality South
Africa, Reutlingen
Municipality Germany,
Talaria, Dutch Ambulance
Service and Dutch Urban
Search and Rescue, etc.

*How
sustainable
are future
mobility
solutions?*

POSITIVE IMPACT

improve the lives and livelihoods of billions of people

health

environment

quality of life

help reach carbon neutral goals

NEGATIVE IMPACT

engender gross inequalities

promote fossil fuel use

degrade the environment

deaths from transport-related accidents

air pollution

Sustainable Mobility

Definitions often focus about harmful effects and problems of mobility on **humans** and **environment** that need to be avoided

European Commission Green Deal
zero pollution
shift to sustainable and smart mobility
supplying clean
affordable and secure energy

Shaping the Future of Mobility

- Mobility – the movement of people and goods – provides access to jobs, education, healthcare and trade.
- Yet today's mobility systems cannot meet future demand without increasing congestion and pollution.
- How can business leaders partner with policy-makers to develop a global mobility system that is safe, clean and inclusive?

Towards Sustainable Air Transportation

DOMAIN

Mobility knowledge and technologies (capabilities): social and environmental impact

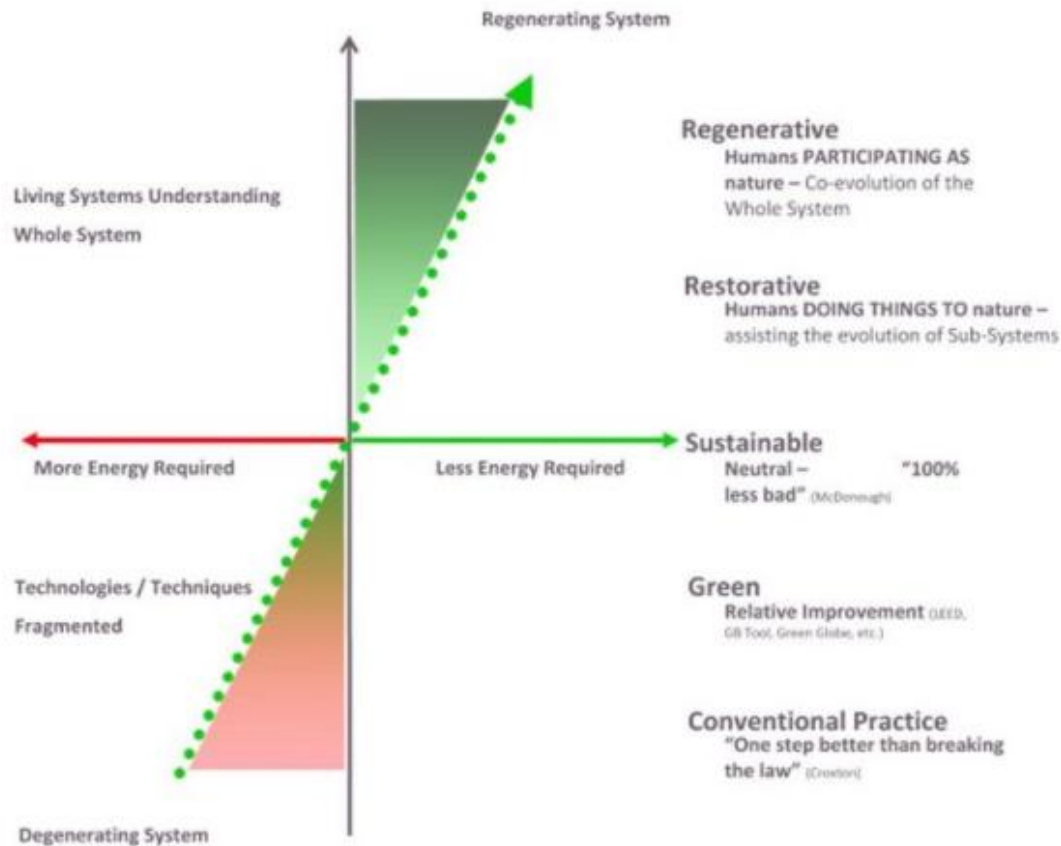
Awareness for sustainable economic models

The resource challenge: transition to circular economy

Climate impact monitoring: to make it tangible and communicate mobility solutions footprint



A refinement in the ideas for sustainable mobility



Trajectory of Environmentally Responsible Design

© All rights reserved. Regenesys 2000-2016 - Contact Bill Reed, bill@regenesysgroup.com for permission to use

Sustainable Development Goals (SDGs) targets and metrics

What are the metrics?

SDG 12 - Responsible consumption and production

SDG 9 - Industry, innovation and infrastructure

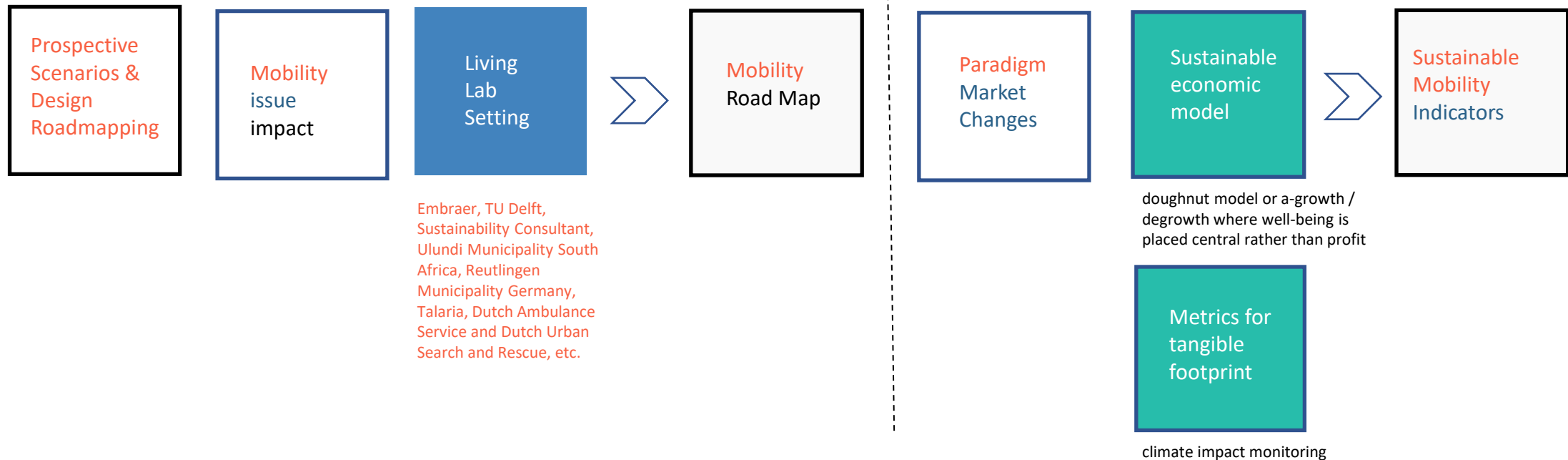
SUSTAINABLE Mobility Road Map

- Select one idea from the Road Map or area in the aviation industry and identify what are the related paradigm market changes when turning to sustainable economics model
- Define measurable metrics for CO2 emissions reductions, health improvements, or other forms of measurable progress toward the SDGs
- Define sustainability indicators



SUSTAINABLE Mobility Road Map

on going



Next Steps

sustainability indicators

sustainable mobility strategies

capture opportunities from industry
disruptions

position industries to succeed in a low-
carbon future



Thank you!