

Digital Construction for EU Green Deal

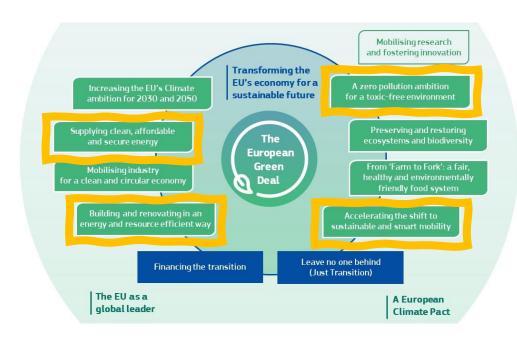
prof. dr. Žiga Turk University of Ljubljana, FGG

Digiplace Closing Conference, May 27, 2021

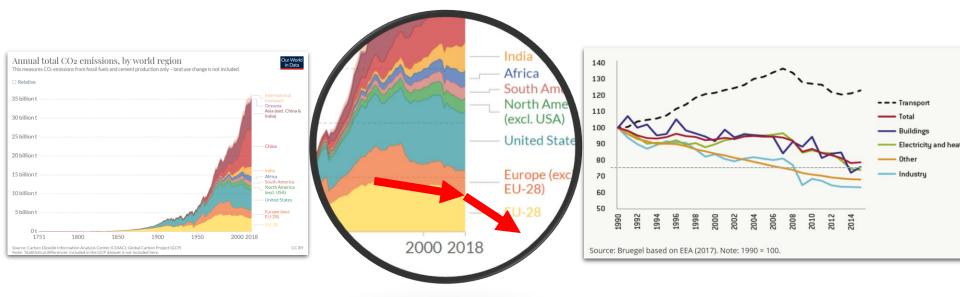


EU Green Deal: Striving to be the first climate-neutral continent

- there are no net emissions of greenhouse gases by 2050
- economic growth is decoupled from resource use
- no person and no place is left behind



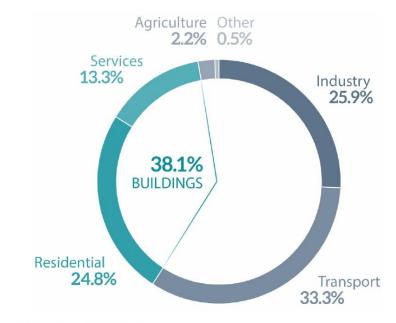
"Increasing climate ambition"



"Building, Renovating" DigiPLACE TOWARDS A EUROPEAN DIGITAL PLATFORM FOR CONSTRUCTION

 Construction industry does design, construction, operation, maintenance of buildings

- But also of
 - Transportation infrastructure
 - Industrial facilities



Data source: Eurostat, 2014.

Some opportunities for construction

- better design and construction
- smarter operation
- intelligent buildings
- smart cities

- digital is key
 - project information management
 - asset information management



Construction lags in digital ...



ICT² Media

Utilities

Mining Real estate

Education Retail trade

Professional services Finance and insurance Wholesale trade

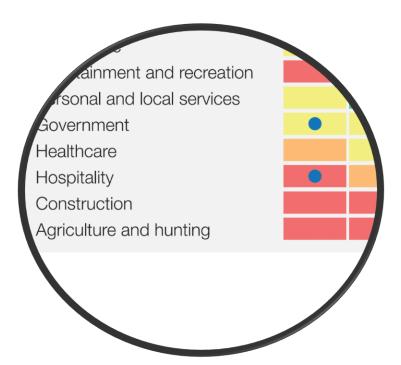
Advanced manufacturing Oil and gas

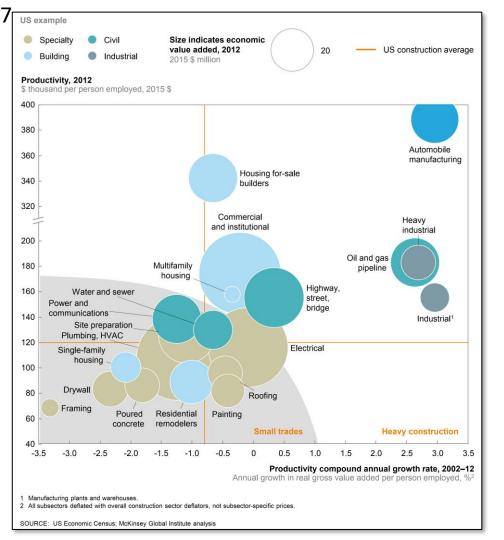
Chemicals and pharmaceuticals Basic goods manufacturing

Transportation and warehousing

Entertainment and recreation
Personal and local services
Government
Hospitality
Construction
Agriculture a hunting







But not all construction

- heavy construction, large companies not so bad
- small trades, SMEs are the problem

Perhaps we can improve the technology delivery mechanism

- Construction lags in productivity
 - mostly because of SMEs
- There is a number of barriers to technology adoption
 - Political, Economic, Social, Technological, Environmental, Legal
- But privately same people use very advanced IT
 - delivered via platforms (Facebook, Youtube, Uber, Amazon, Android ...)
- Perhaps we can improve technology delivery mechanism





Empowerment came in many shapes and sizes























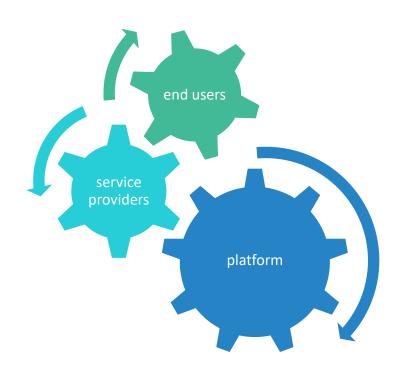


Key idea was a platform

a service technology / innovation platform monetization internet technology / innovation prof. Ziga Turk - Digital Construction for the EU Green Deal - Digiplace, May 2021

Platforms do three things

- Simplify collaboration
 - project collaboration
- Reduce transaction costs
 - re-use of functionality, marketing, monetization
- Enable complementary innovation
 - platform :: providers :: end users

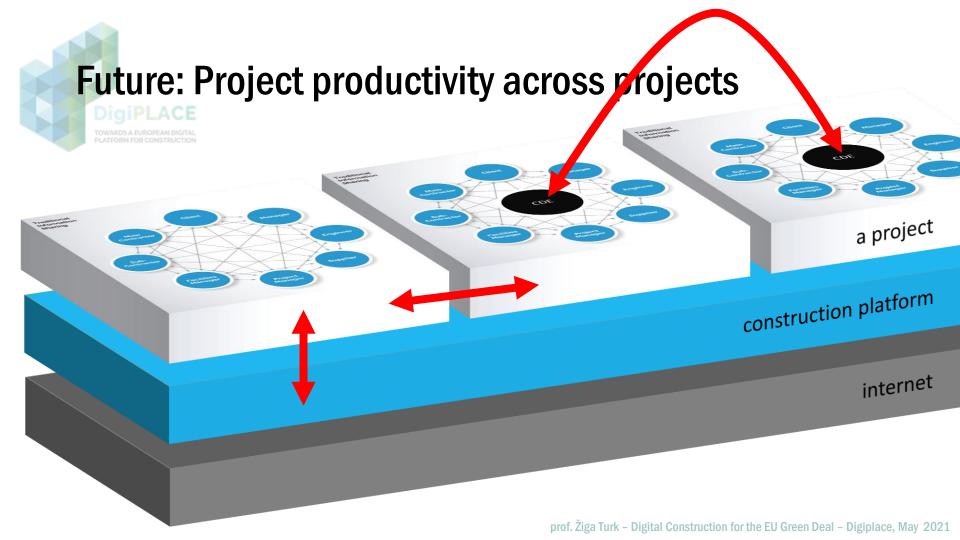


So far: looking for productivity gains within a project









"A race Europe cannot afford to lose"

"Europe's next unicorn could stem from the collaborative economy"

- Jyrki Katainen, vice president, European Commission.

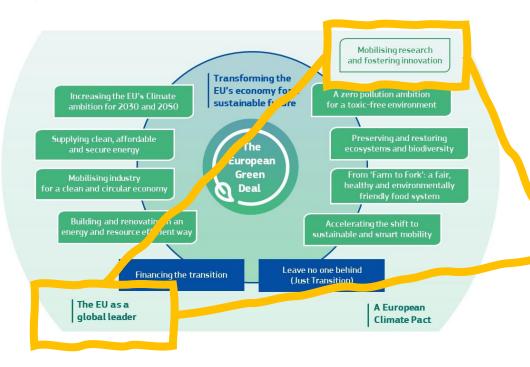
"Business-to-Business platforms: the race that Europe cannot afford to lose"

- Max Lemke, European Commission



Green Deal for mobilizing research, fostering innovation, making EU global leader

TOWARDS A EUROPEAN DIGITAL PLATFORM FOR CONSTRUCTION



 DigiPlace project created a framework for this future





The End

