



A large, semi-transparent background image shows a person's hand holding a smartphone. The screen of the phone displays a detailed blue-toned circuit board or architectural diagram, suggesting a connection between mobile technology and digital design.

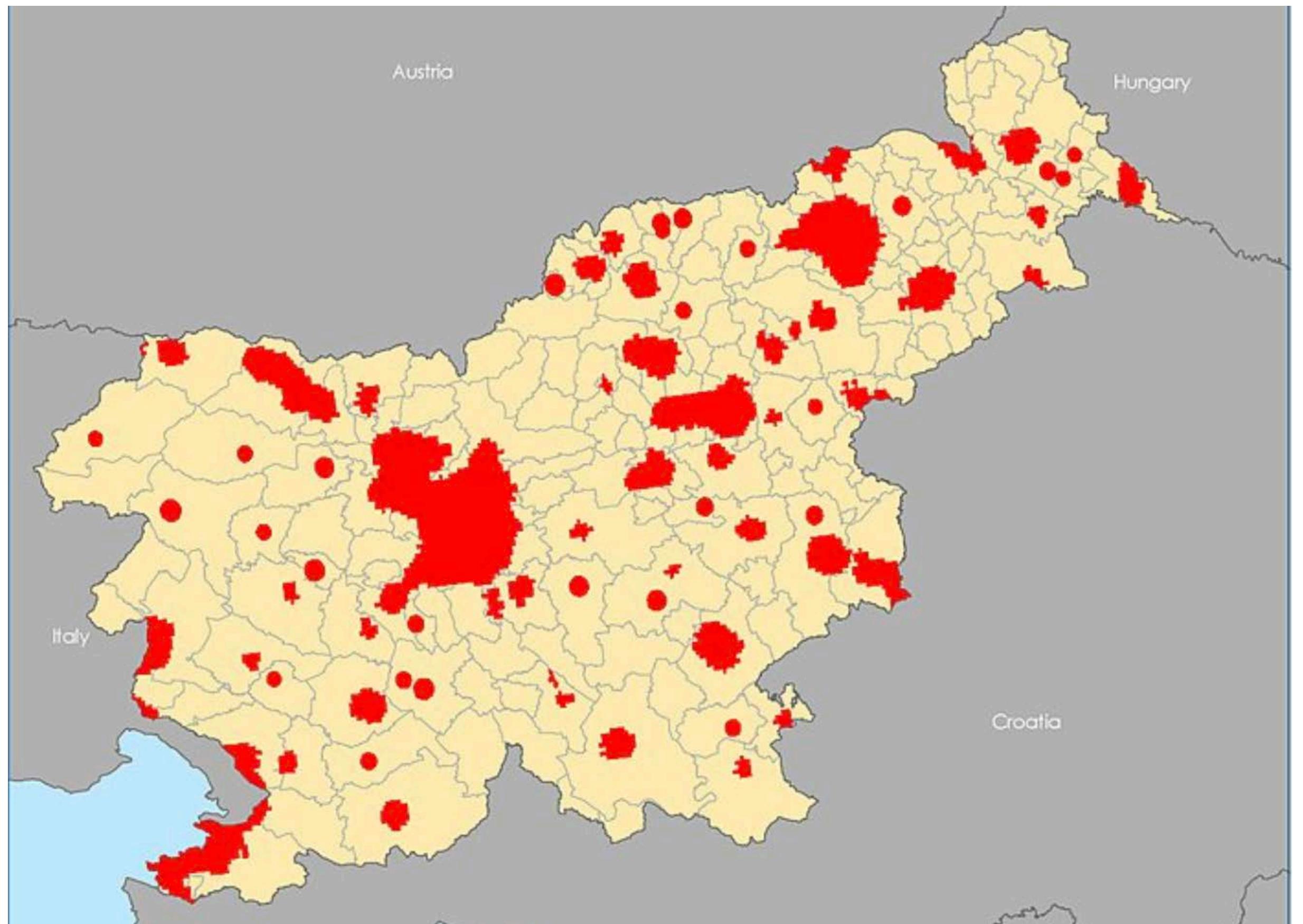
Go Digital: FabLab Network, DIHs, Smart Villages

Dr. Emilia Stojmenova Duh

The engaged university. Linking the global and the local

Slovenia rural-urban areas

- URBAN
 - $>500 \text{ hab/km}^2$, 3% of area
 - 45% population in 159 towns, 49% HH
 - TS LL: 0,7 km avg. air distance
- SUBURBAN
 - $100-500 \text{ hab/km}^2$, 16% of area
 - 31% population in 1.443 settlements, 28% HH
 - TS LL: 1,1 km avg. air distance
- RURAL
 - $< 100 \text{ hab/km}^2$, 81% of area
 - 24% population in 4.428 villages, 23% HH
 - TS LL 2,2 km avg. air distance

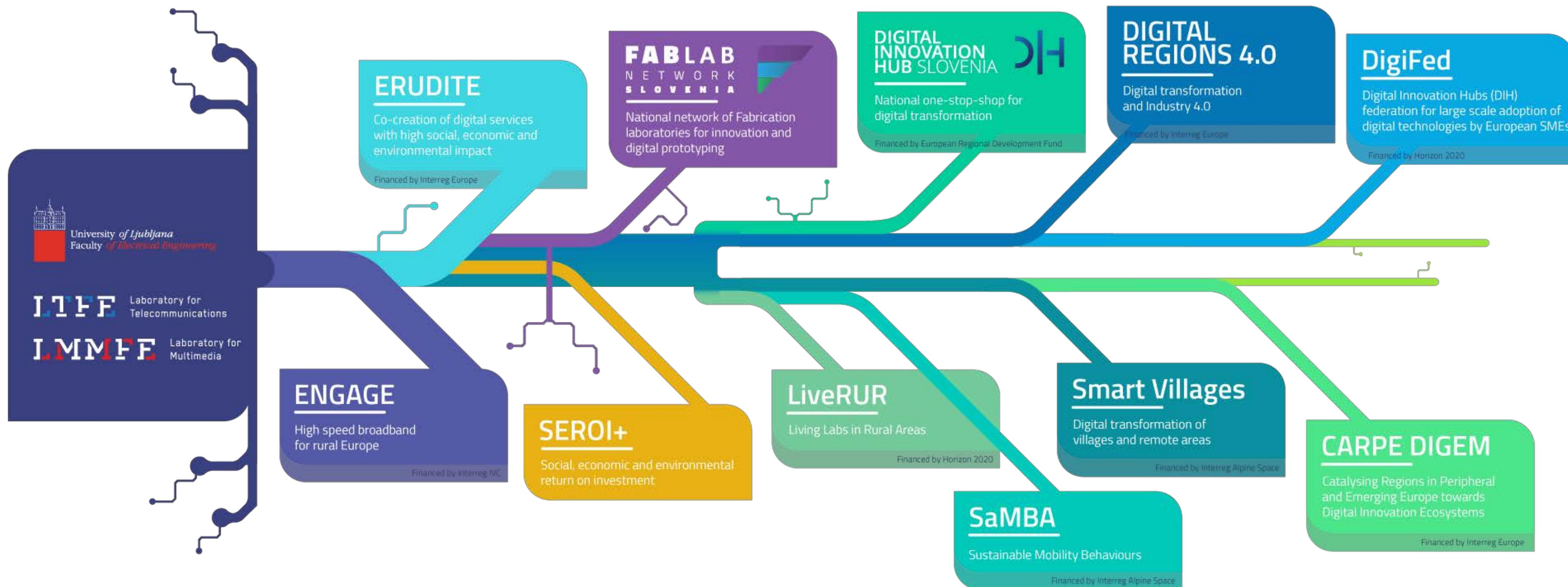


Faculty of electrical engineering

- A century-old tradition
- Bachelor's, Master's and PhD programmes
- Over 13,000 graduates
- 9 departments and 30 research labs
- 351 employees: 116 teaching staff, 145 scientific associates, 30 researchers and 60 technical staff
- 1341 students in school year 2018/2019
- Currently over 100 different contracts with Slovenian and foreign companies (Comtrade, Kolektor, TPV, Revoz ...)

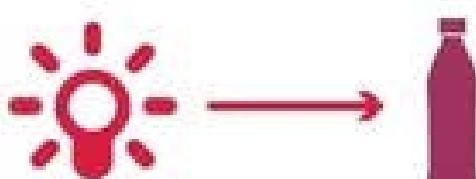


Going digital



01

DIGITAL FABRICATION LABORATORIES ARE PLACES WHERE RELATIONSHIPS ARE SET UP TO INSPIRE PEOPLE TO TURN THEIR IDEAS INTO NEW PRODUCTS



02

HOW?
BY GIVING PEOPLE ACCESS TO A RANGE OF ADVANCED DIGITAL MANUFACTURING TECHNOLOGIES AND KNOWLEDGE



3DPRINTER



3DSCANNER



ARDUINO



LASERCUTTER



CNCMILL



PLOTTER



MAKING TOOLS

FABLAB

MAKING IDEAS



JOIN THE REVOLUTION!

03

IT'S MORE THAN 3D PRINTING.
IT IS AN EVOLVING SUITE OF CAPABILITIES TO TURN DATA INTO THINGS AND THINGS INTO DATA



04

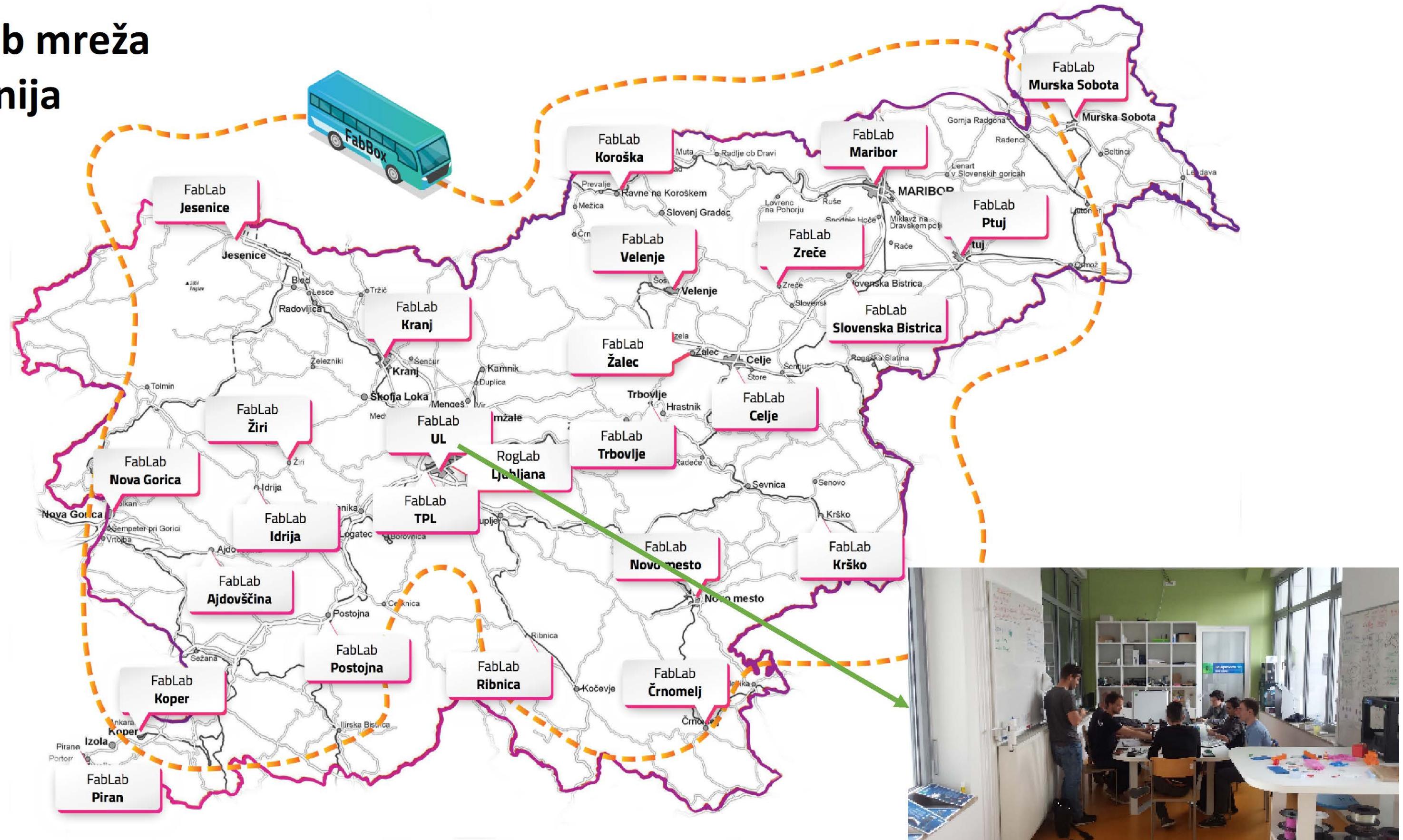
HOW WILL WE LIVE, LEARN, WORK, AND PLAY WHEN ANYONE CAN MAKE ANYTHING, ANYWHERE?



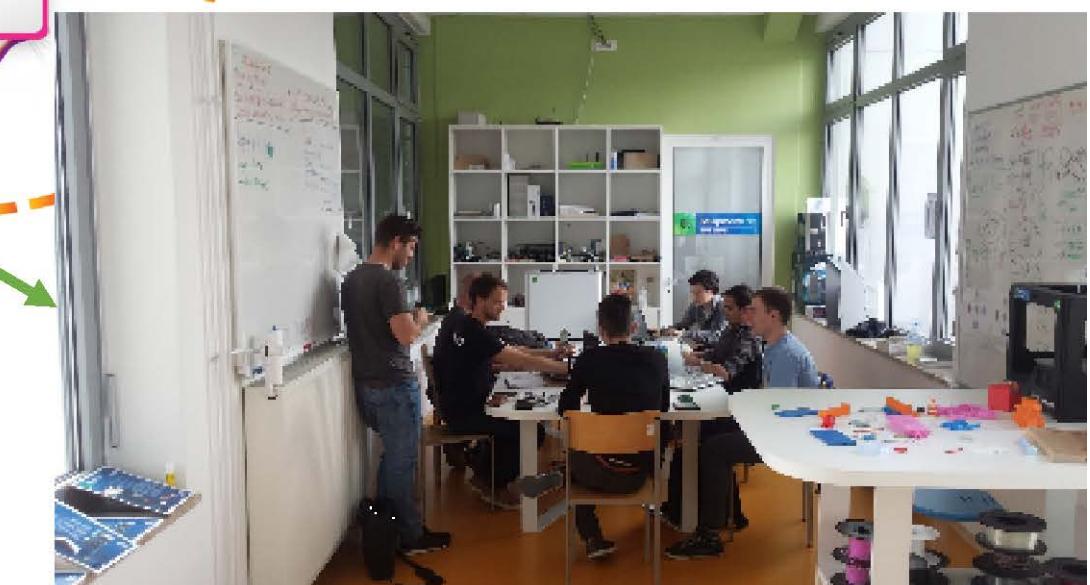
THE REVOLUTION IS ALREADY WELL UNDER WAY

Digital education: FabLab Network Slovenia

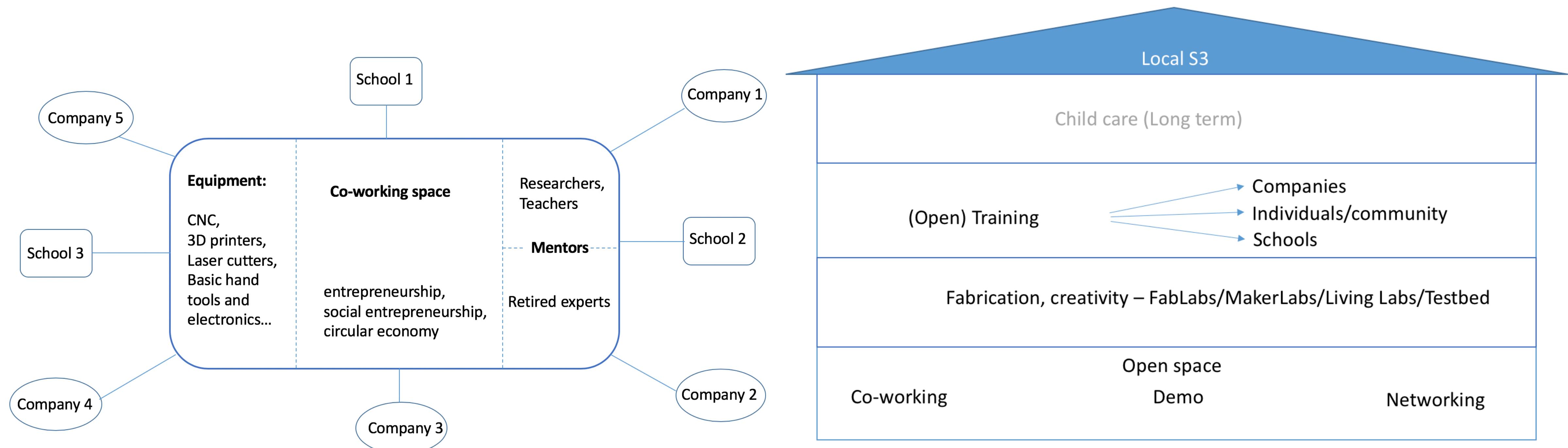
FabLab mreža Slovenija



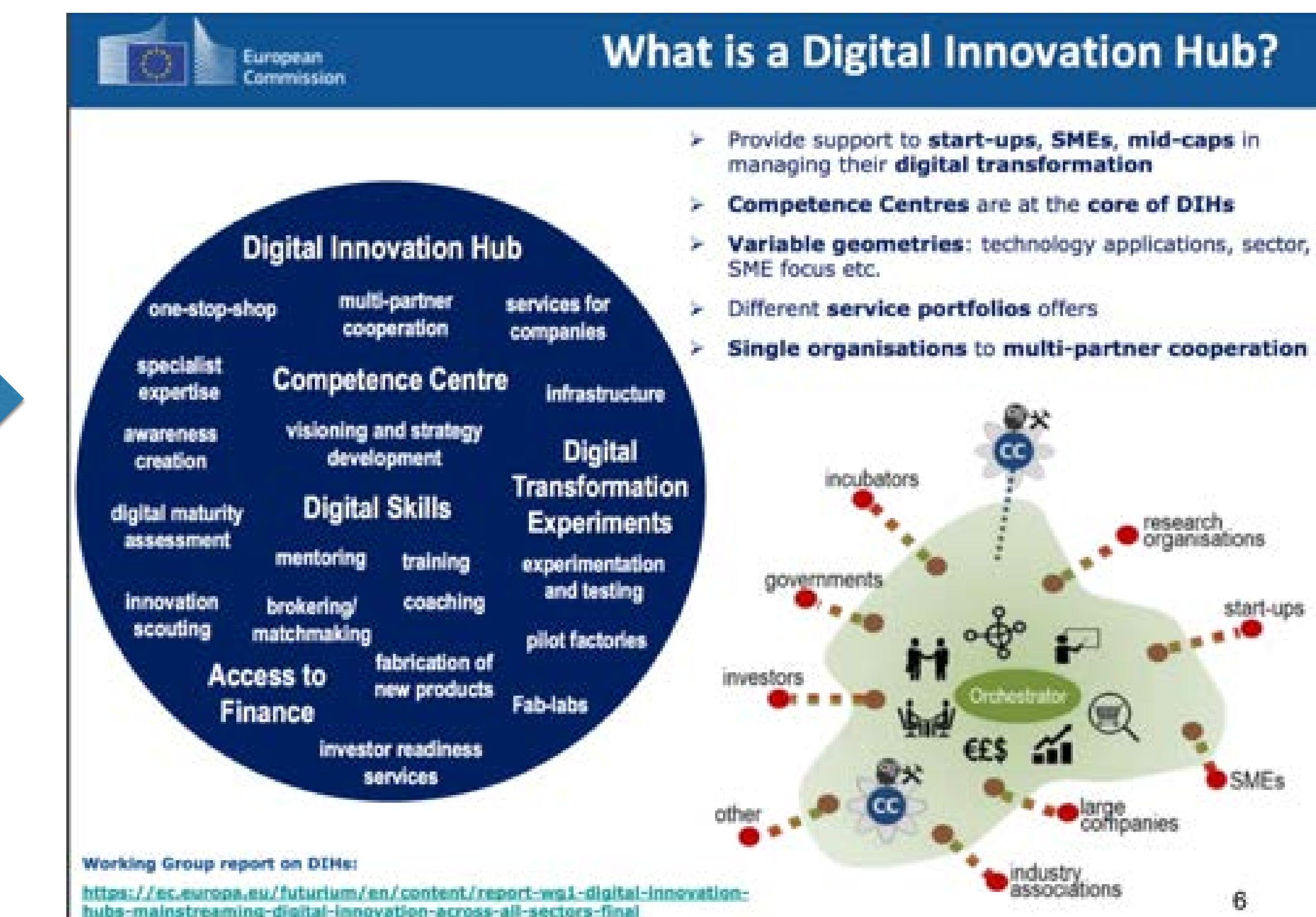
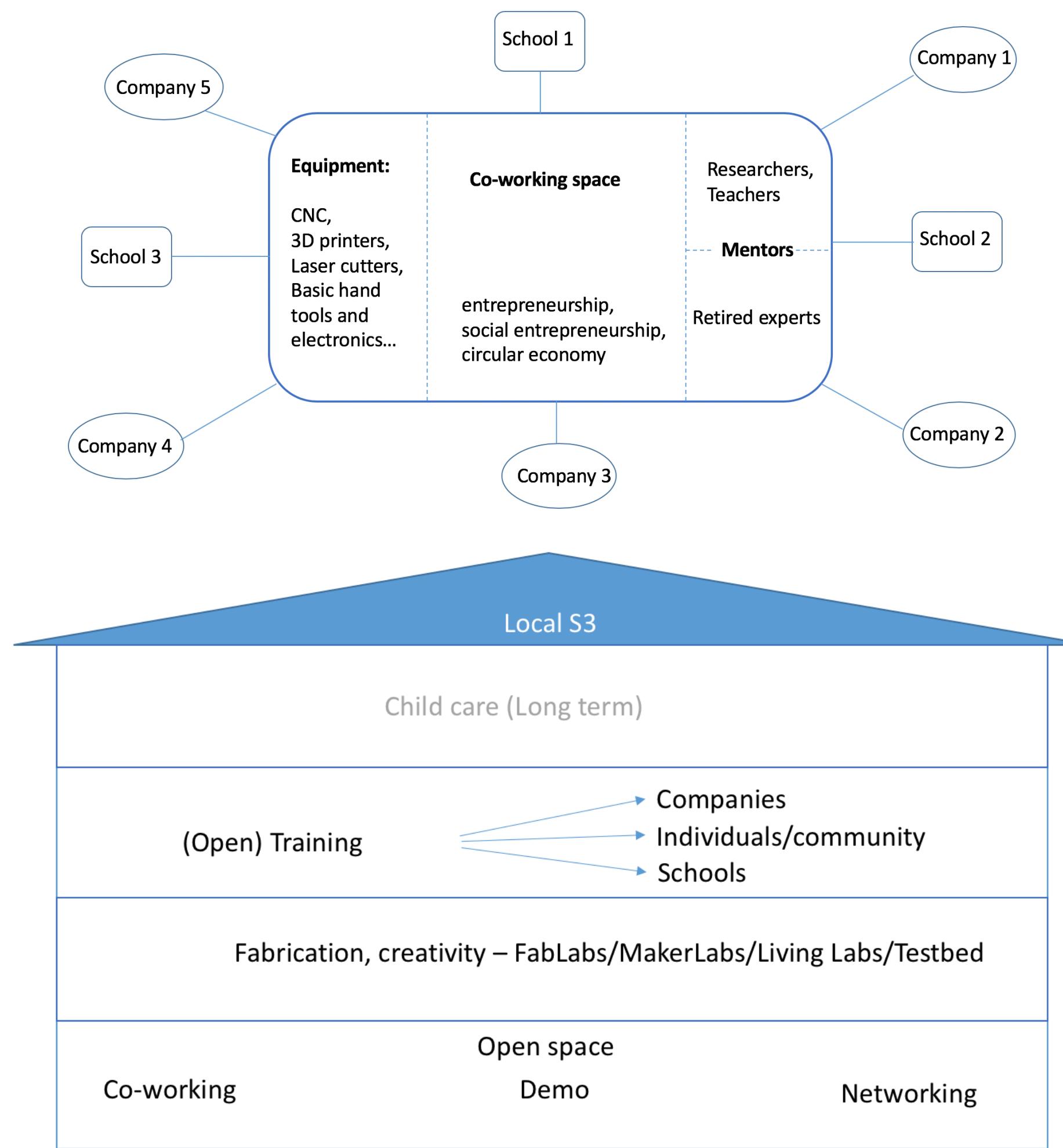
- <http://fablab.si/>
- 91 partners
- 29 FabLabs
- 1 Mobile FabBox
- Rural-urban linkages



Our FabLab concept



Digital SMEs: Digital Innovation Hubs



Smart Villages

- Digital transformation and Living Lab concept in rural areas
- Four pilot areas
- Strong collaboration with DG AGRI and ENRD thematic group on Smart Villages



Smart Villages

Kungota, Slovenia



Smart Villages

Šmarje, Slovenia



Smart Villages

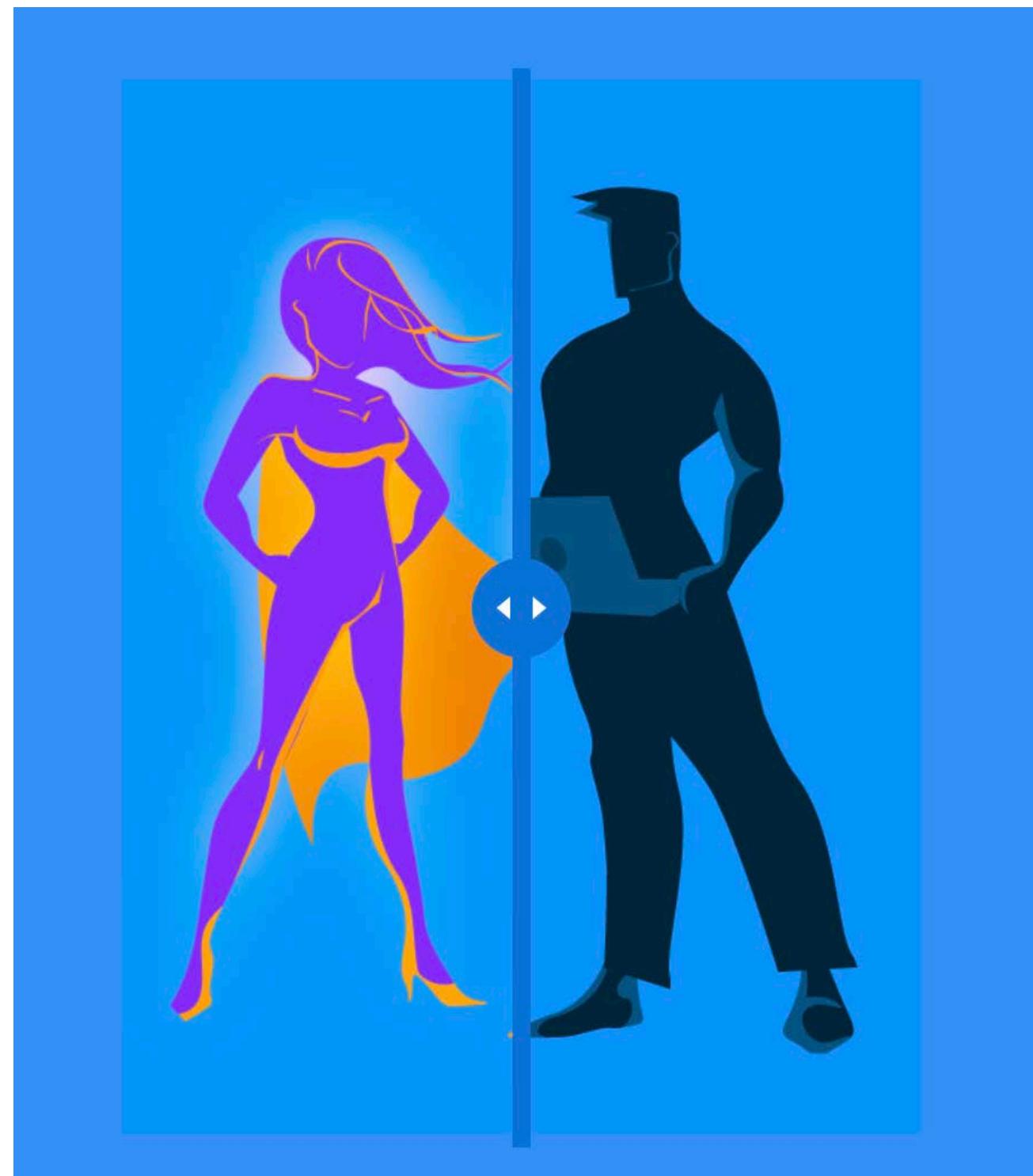
Padna, Slovenia



Smart Villages

Solčava, Slovenia

Smart villages – social innovation



Nedavne lokalne face / Latest Local Heroes

Local Heroes / Lokalne face

23 July 2019 Jožica Ferk
Jožica Ferk, upokojenka iz Kungote / Jožica Ferk, a retiree from Kungota

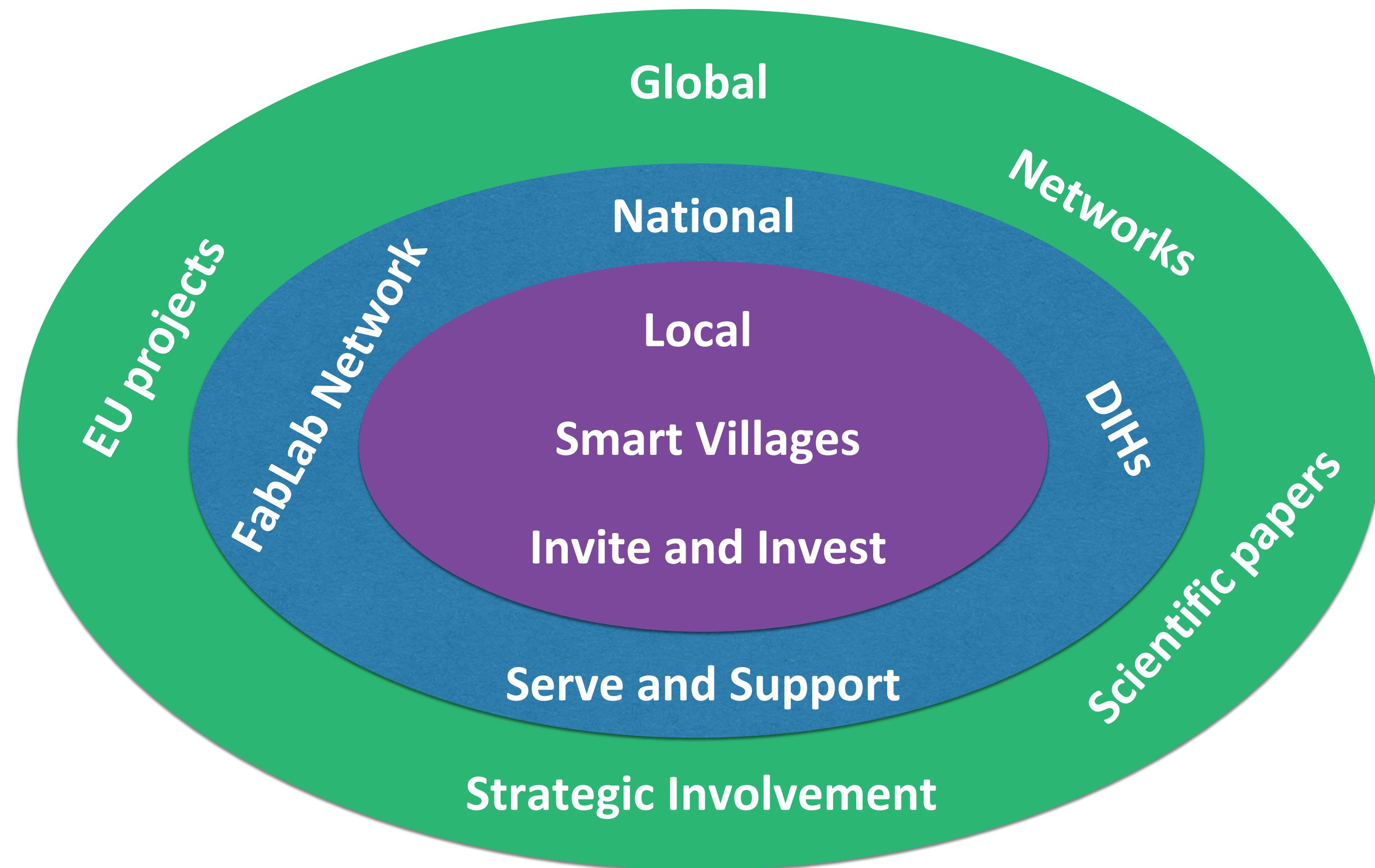
Local Heroes / Lokalne face

17 July 2019 Denis Goja
predsednik Krajevne skupnosti Padna / Denis Goja, president of Padna Local Community (Padna, Slovenia)

Local Heroes / Lokalne face

10 July 2019 Marko Slapnik
Lokalni projektni koordinator / Local project coordinator (Solčavsko, Slovenia)

The engaged university. Linking the global and the local



The secret recipe





F A B L A B
N E T W O R K
S L O V E N I A



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