



ČVUT

UCEEB



IT DOES NOT END WITH A PILOT PROJECT: COOPERATION WITH CITIES FROM CZECHIA UNDER HORIZON EUROPE PROGRAMME

**MICHAL KUZMIČ (HEAD OF MULTIDISCIPLINARY RESEARCH, URBAN INNOVATION PROGRAM MANAGER)
23. 11. 2022**



COLLABORATION WITH MUNICIPALITIES AND PUBLIC SECTOR

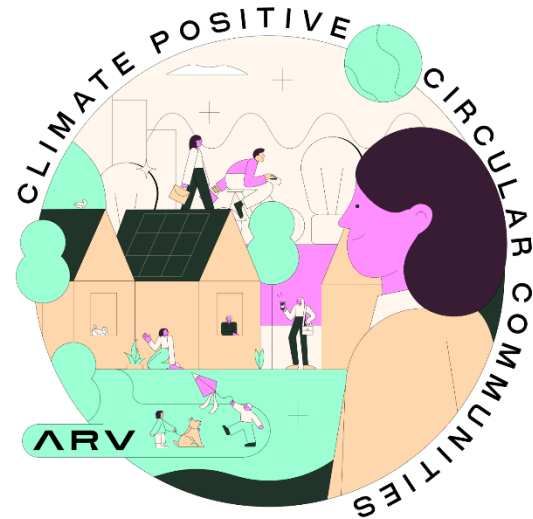


SCOPE IN URBAN INNOVATION FIELDS

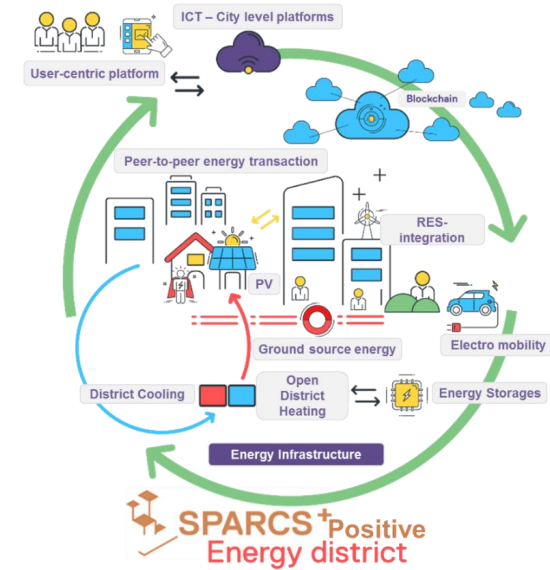
TECHNOLOGY > BUILDING > NEIGHBOURHOOD

A word cloud of urban innovation concepts. The words are arranged in a roughly circular shape, with varying font sizes and colors. The colors include blue, orange, green, red, and purple. The words are: district heating concept, green roof solution, educational activities, circular construction, documentation review, orc unit piloting, sc monitoring, vision 2050, energy flexibility pilot, complex renovation, outdoor air quality, building energy concept, positive energy district, biosolar roofs, public space visioning, smart city analysis, environmental concept, urban furniture, bldg utilization concept, new european bauhaus, iot platform for iaq, and participatory planning.

district heating concept green roof solution
educational activities
documentation review circular construction
vision 2050 orc unit piloting sc monitoring
energy flexibility pilot complex renovation outdoor air quality
building energy concept
positive energy district biosolar roofs
public space visioning smart city analysis
environmental concept urban furniture bldg utilization concept
new european bauhaus iot platform for iaq
participatory planning



<https://greendeal-arv.eu/>



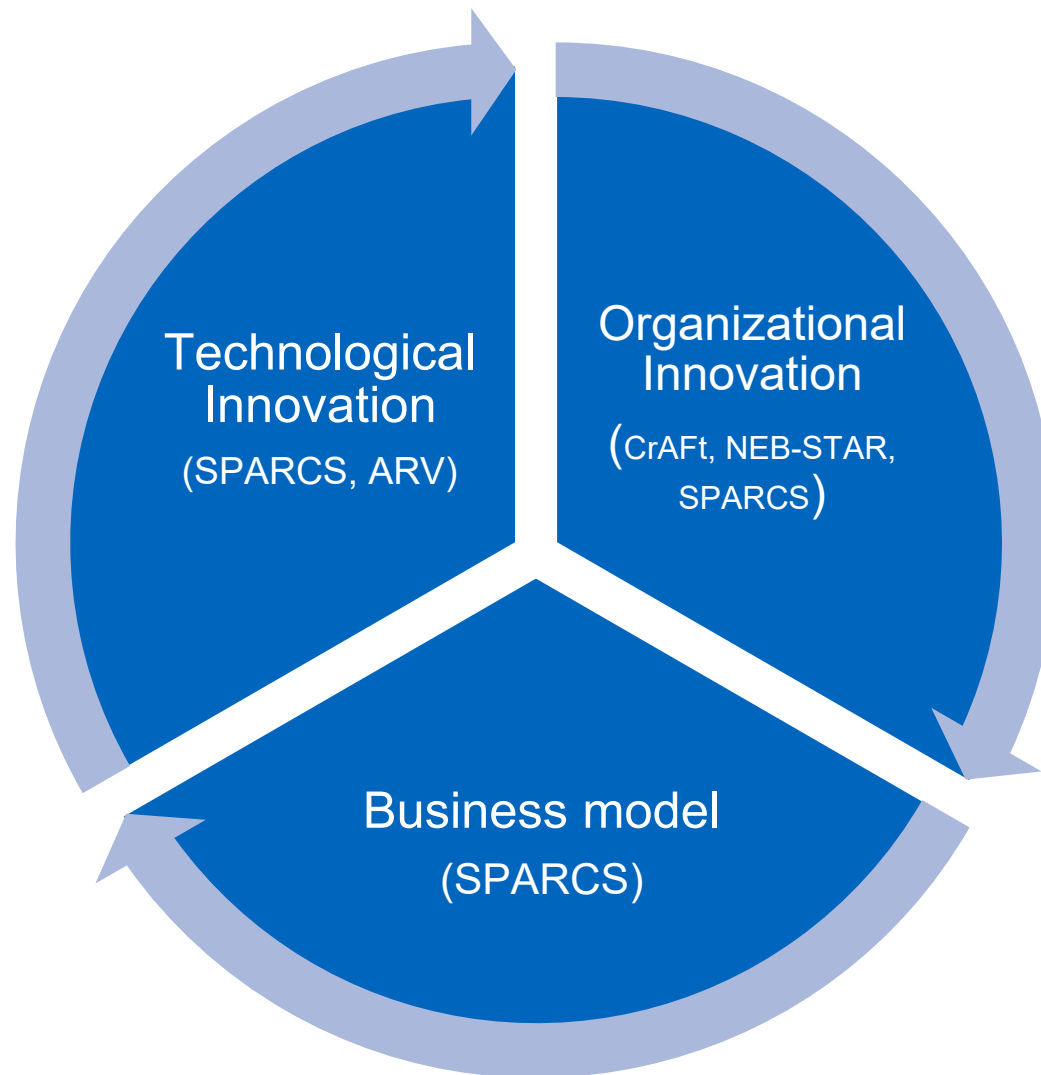
<https://sparcs.info/>



<https://craft-cities.eu/>



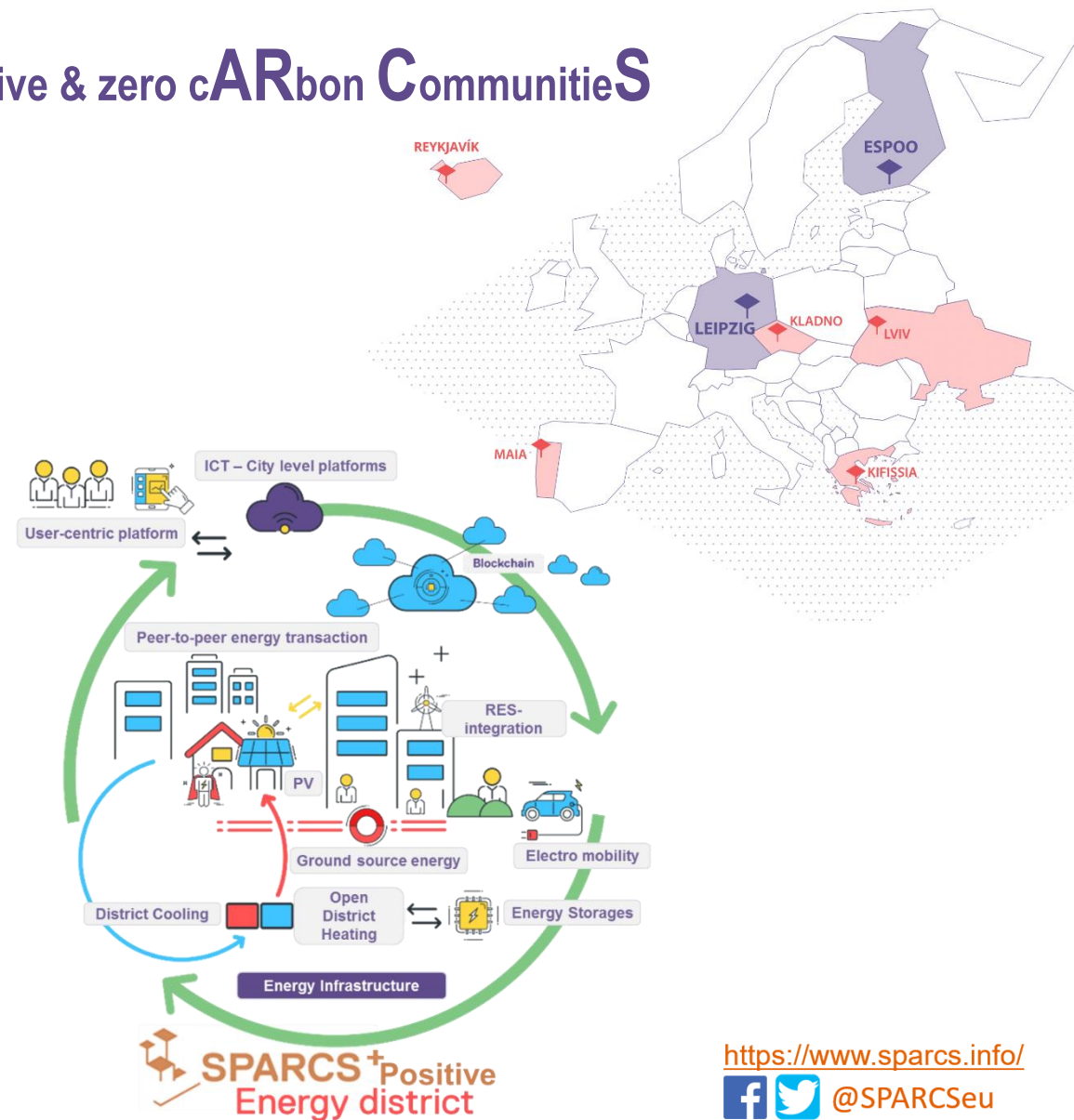
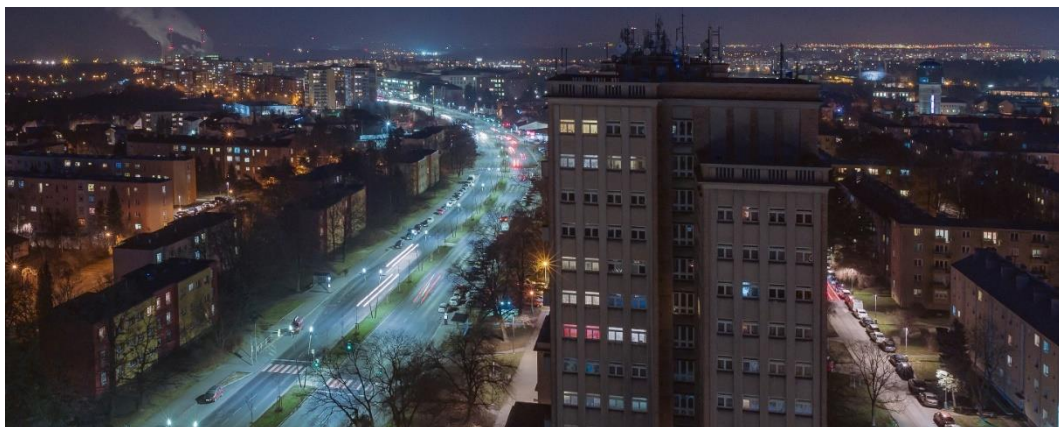
RUNNING HORIZON PROJECTS ON URBAN INNOVATION



SEEKING IMPACT AND CHANGE IN THE PROJECTS

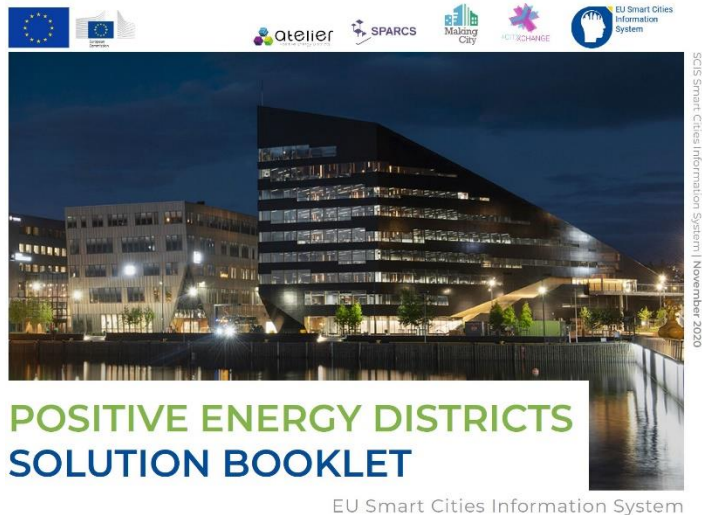
Sustainable energy Positive & zero carbon Communities

“validate innovative solutions for planning, deploying and rolling out integrated energy system as an efficient mean for the urban transition into a citizen centered zero carbon ecosystem enabling a high quality of life”



<https://www.sparcs.info/>

  @SPARCSeu



POSITIVE ENERGY DISTRICT

Positive Energy Districts are **energy-efficient and energy-flexible urban areas or groups of connected buildings which produce net zero greenhouse gas emissions and actively manage an annual local or regional surplus production of renewable energy.**



ZERO EMISSION NEIGHBOURHOODS IN SMART CITIES

Definition, key performance indicators and assessment criteria:
Version 1.0. Bilingual version
ZEN REPORT No. 7 – 2018



SINTEF | NTNU

NTNU SINTEF

URBANEUROPE

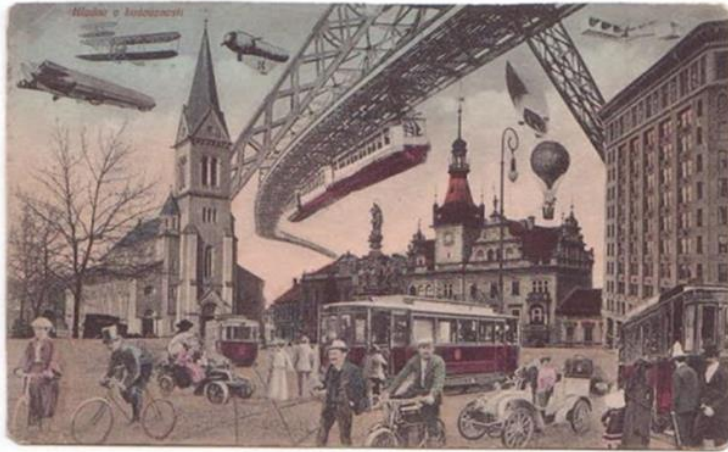


EUROPE TOWARDS POSITIVE ENERGY DISTRICTS

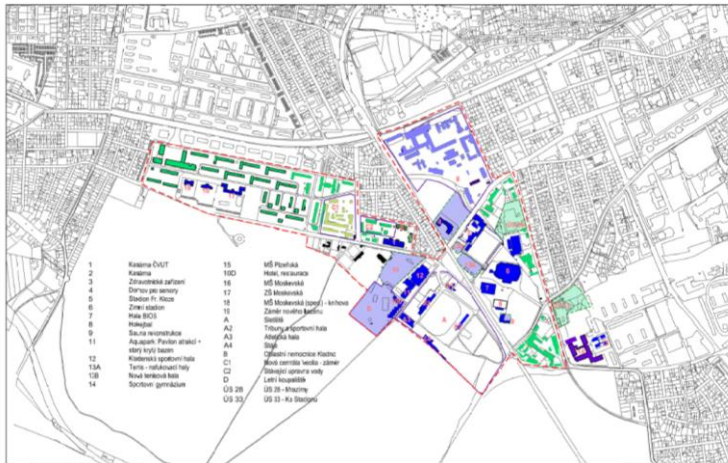
FIRST UPDATE
February 2020

A compilation of projects towards sustainable urbanization and the energy transition





VISIONING AND ROADMAPING WITH KLDNO



DESIGNING POSITIVE ENERGY DISTRICT



CO-FACILITATING KLDNO INNOVATION ECOSYSTEM



PED-EU-NET | COST ACTION CA19126

**Positive Energy Districts
European Network**

[KNOW MORE](#)

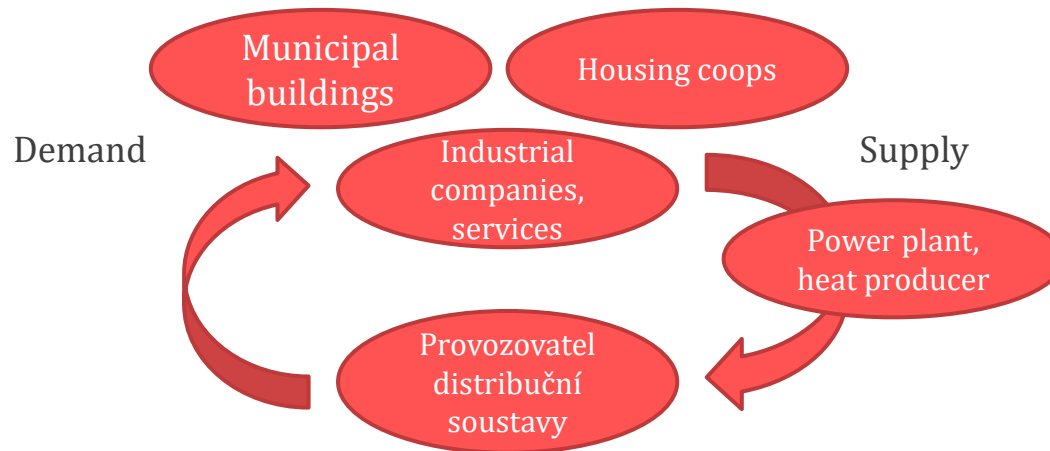


MANAGING KNOWLEDGE EXCHANGE WITH PARTNERS

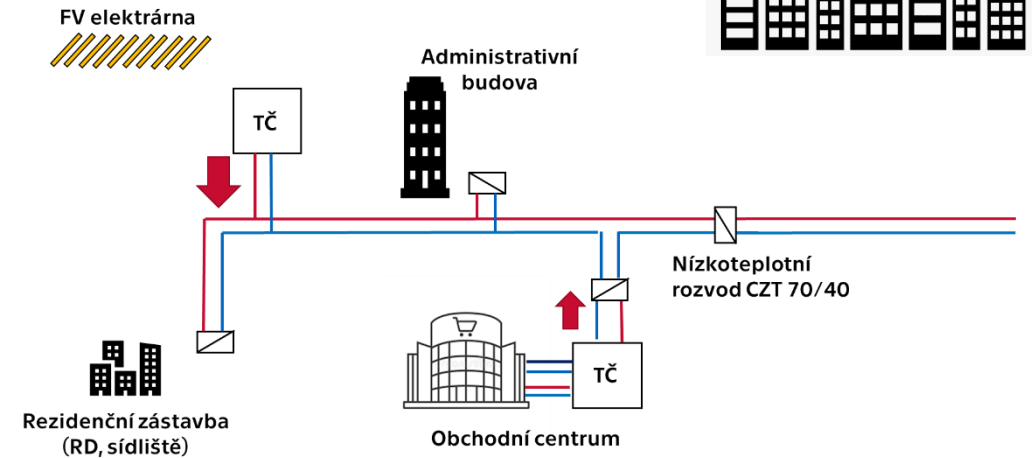
Kladno process



(1) LOCALITY SELECTION



(3) BUSINESS MODEL



(2) TECHNOLOGICAL SCENARIOS

To do list

- Monitoring spotřeb ☒
- Zateplení budov ☒
- Dílčí OZE ☒
- Modernizace sítí CZT ☒
- Dílčí akumulace
- Dílčí projekty komunit
- ...

(4) PROJECT PRIORITIZATION



New European Bauhaus
beautiful | sustainable | together



The New European Bauhaus initiative connects the European Green Deal to our daily lives and living spaces. It calls on all Europeans to imagine and build together a sustainable and inclusive future that is beautiful for our eyes, minds, and souls.



ENRICHING

inspired by art and culture, responding
to needs beyond functionality.



SUSTAINABLE

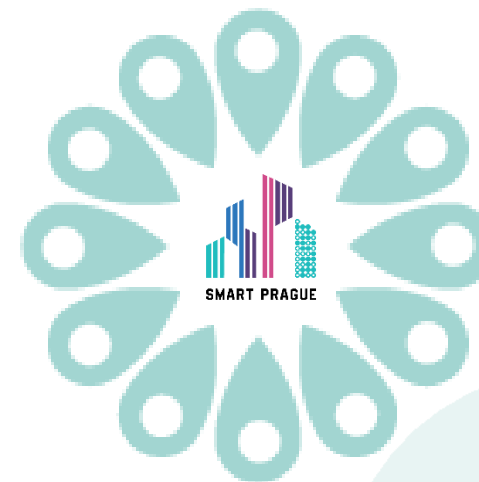
in harmony with nature, the
environment, and our planet.



INCLUSIVE

encouraging a dialogue across cultures,
disciplines, genders and ages.

ROLES OF THE CVUT UCEEB



MUTUAL LEARNING EXERCISE OF CRAFT CITIES

PARTICIPATING IN THE PRAGUE INNOVATION ECOSYSTEM

Open Call for the Core Group of Students for the CrAft Next Generation Think/Do Tank

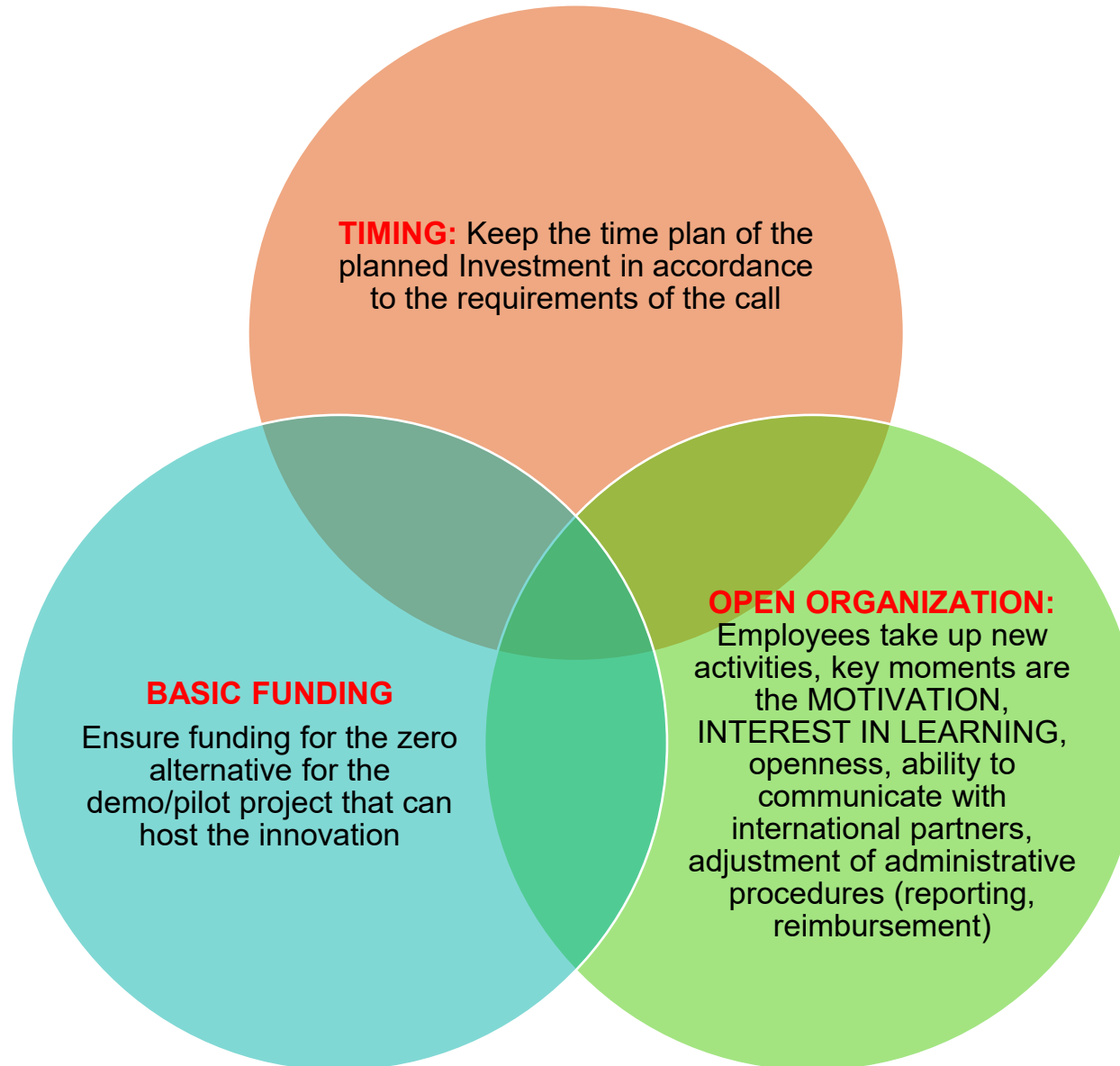
Application deadline: 30 October

ORGANISING STUDENT TEAMS



COLLECTING NEB RELEVANT STORIES

NEXT STEP: FINDING DEMO(S)





CTU

UCEEB



THANK YOU FOR YOUR ATTENTION!

Michal Kuzmic

Head of Multidisciplinary research at the CTU UCEEB

michal.kuzmic@cvut.cz