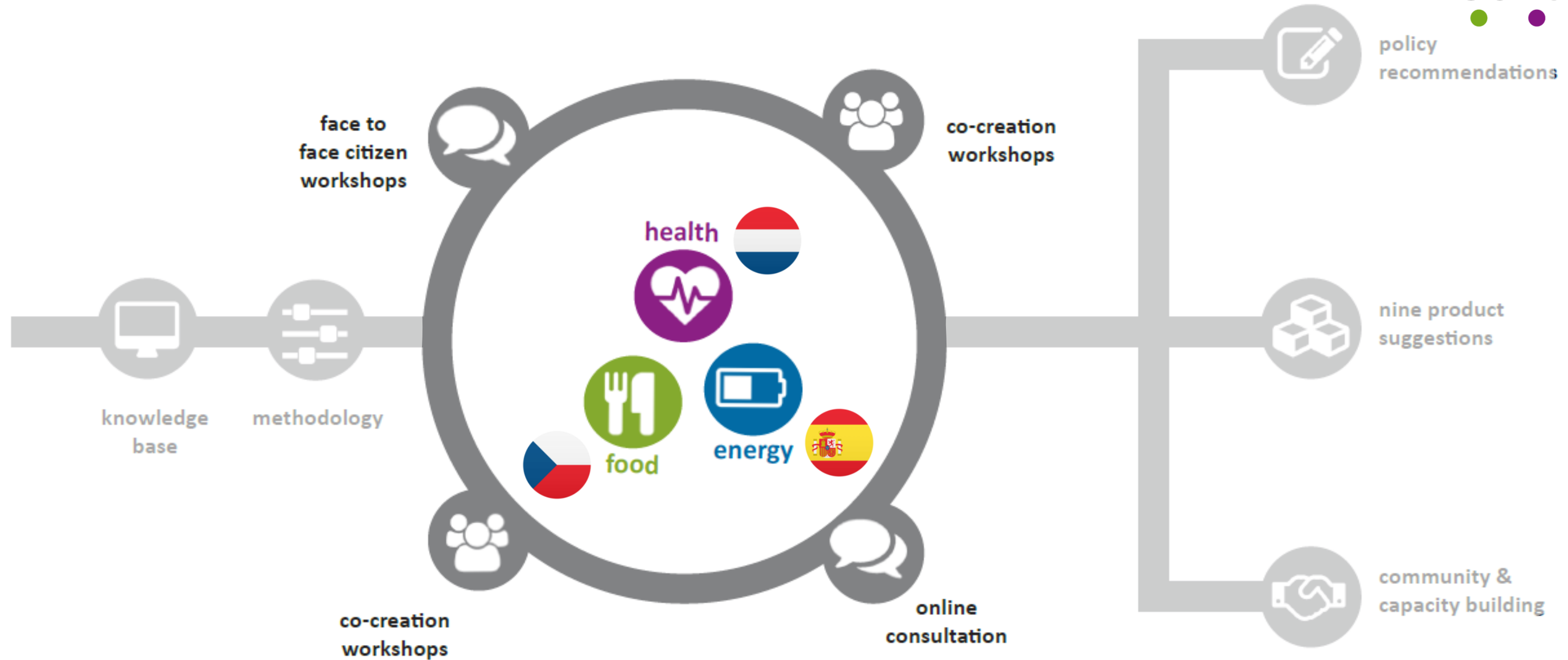


CO-CREATION PROCESS – STAKEHOLDER WORKSHOPS



FIRST STAKEHOLDER WORKSHOPS (n=89)



Location	Partner	Topic	Date	Participants
Enschede (NL)	UT	Health (Diabetes)	February 12, 2019	11
Prague (CZ)	TC CAS	Food	February 28, 2019	34
Enschede (NL)	UT	Health (Sensors)	March 5, 2019	8
Enschede (NL)	UT	Health (Policy)	March 7, 2019	9
Barcelona (ES)	RMIT	Energy	March 7, 2019	27



FORMAT first STAKEHOLDER WORKSHOPS

- **Exploration** – need and values from citizens explored, own interests
- **Ideation** – imagined revisions of R&I
- **Prototyping** – storyboard visualising possible designs and concrete actions
- **Reflection** – presentation visions and reflection on outcomes



RESULTS first STAKEHOLDER WORKSHOPS

From needs and values to storyboards and (product) suggestions



- Novel food with balanced nutrients
- Antimicrobial meat packaging
- Method for detecting nano-particles



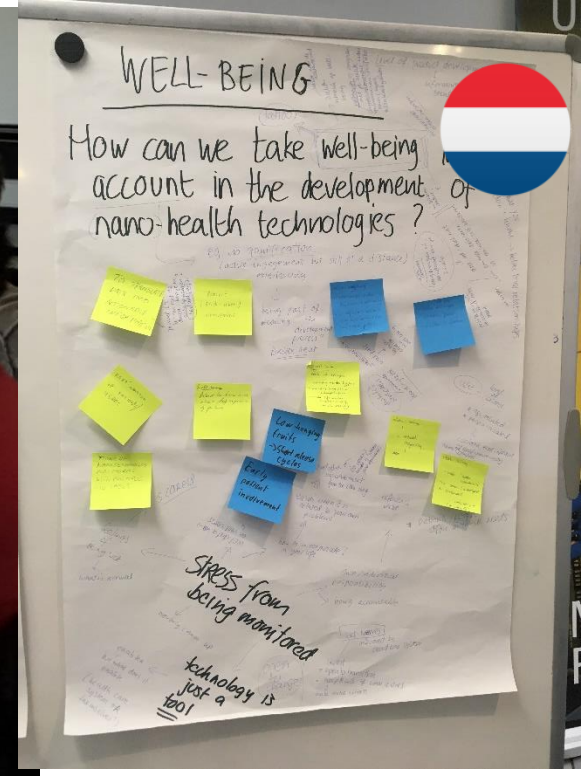
- Autonomous sensor technologies for smart homes
- Piezo electro festival
- Communication and education of renewable energy technologies



- Implementation of an early diagnostic device for diabetes type 1
- Data plan for artificial pancreas
- Detection of cancer based on sensor technologies

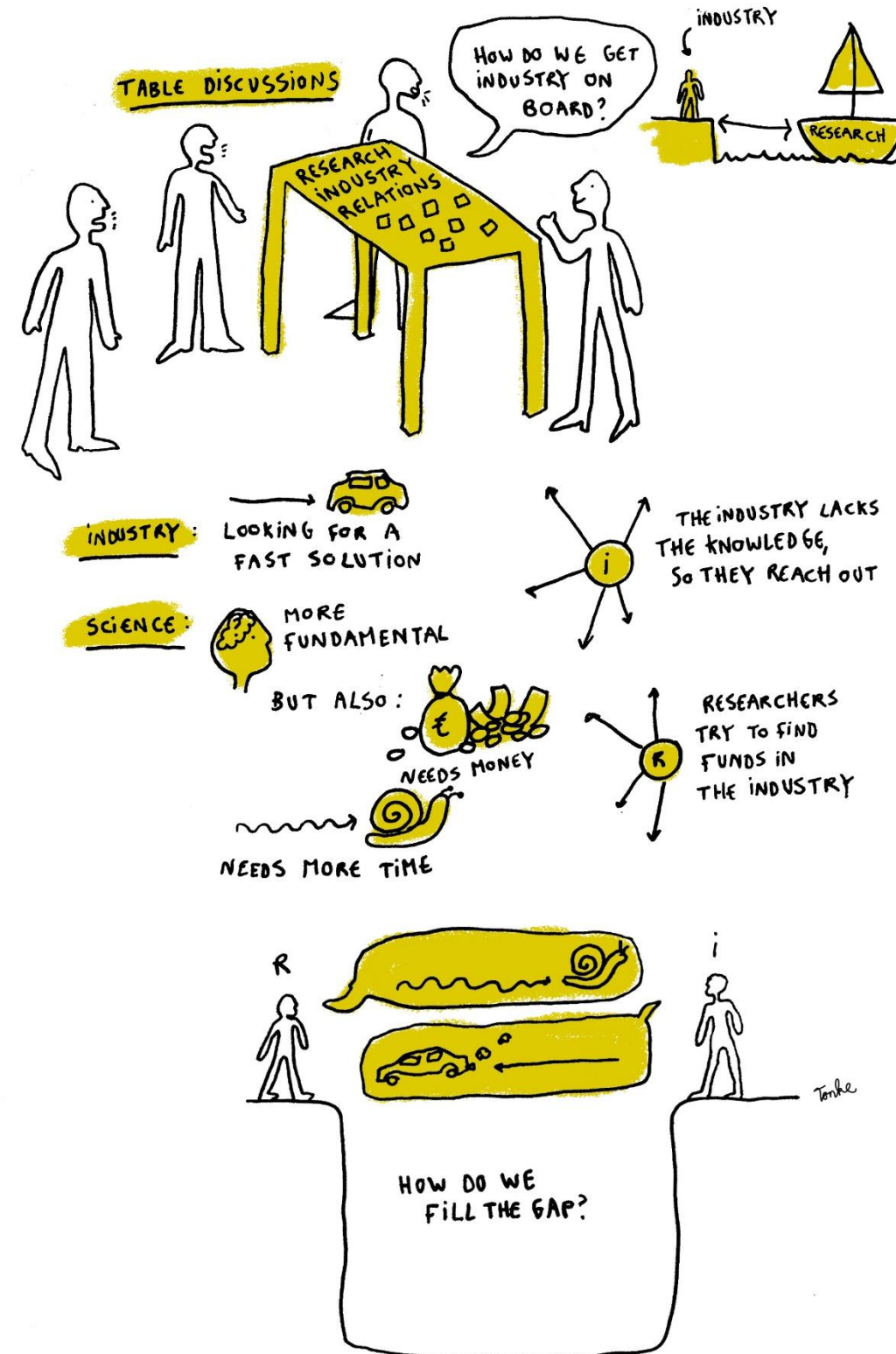
SECOND STAKEHOLDER WORKSHOPS (n=41)

Location	Partner	Topic	Date	Participants
Prague (CZ)	TC CAS	Food	22 October 2019	16
Barcelona (ES)	RMIT	Energy	30 October 2019	9
Enschede (NL)	UT	Health	7 November 2019	16



FORMAT second STAKEHOLDER WORKSHOPS

- **Exploration** – co-creation process + introducing product suggestions derived from first workshops and citizen consultations
- **Ideation** – discussion of product suggestions
- **Prototyping** – defining next actionable steps to integrate societal considerations
- **Reflection** – feasibility of action plan; integration citizen perspectives; opportunities and barriers to co-creation process



RESULTS second STAKEHOLDER WORKSHOPS



Towards actionable steps and reflection



1. **Novel foods** > safety; superfood
2. **Nanofilters** > safest; how to address it
3. **Smart food packages** > 'intelligent' (existing) packaging system

Safety / technology /
regulation / public input



- Harvestore project** – autonomous wireless sensor nodes > data ownership / privacy / parameters / broader stakeholder engagement



1. **Health data for diabetes** > balancing control of data versus trusting it to others / value of data
2. **Involvement of industry & research sensors** > shared objectives / build relationships / engage / in steps

REFLECTION on the co-creation process / cycle



- Workshops highly appreciated (4.8/5)
 - new information; fresh ideas; new perspectives
- Can add value; with relevant discussions and insights
- But also, difficult to translate into concrete action and products > balancing openness and concreteness
- Starting point? Citizens' needs versus technologies
- Many possible engagement forms
- Need to continue efforts to enhance a sustainable relationship

Watch the five vignettes about the co-creation approach on the GoNano YouTube channel

