

The background features a dark blue gradient with a pattern of light blue and green gears. On the right side, there is a silhouette of a human brain filled with various white icons representing technology, education, and innovation, such as lightbulbs, books, and a person at a computer. The text is positioned on the left side of the image.

N ■ NEW
■ HORIZON

Societal Readiness
Thinking Tool

Relevant Objectives



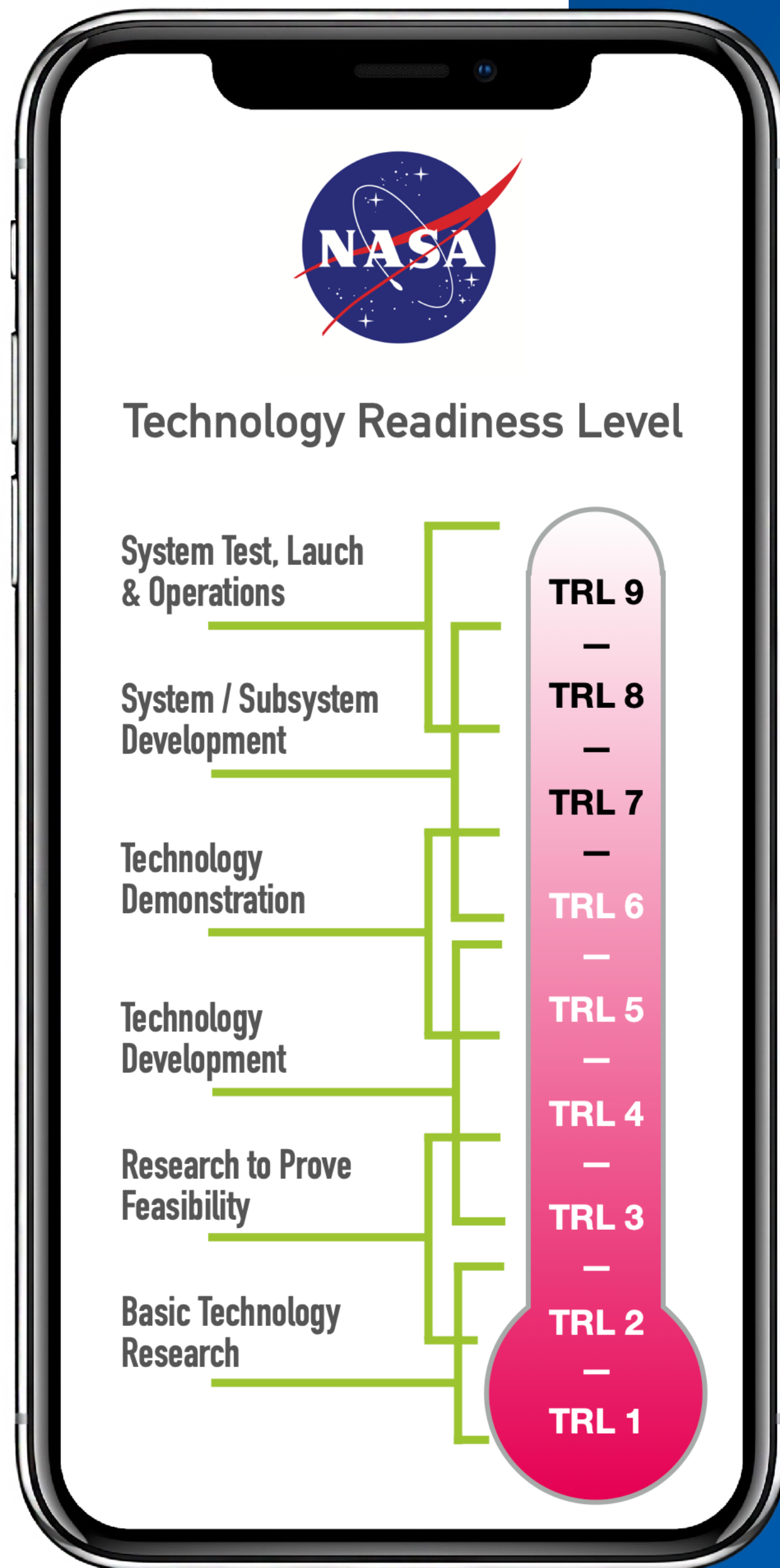
To develop a concept and taxonomy of Society Readiness Level (SRL)



To develop a preliminary measurement scheme for evaluating SRL



To launch the preliminary SRL tool, for testing within Social Labs and others



PUTTING RRI INTO PRACTICE

HOW CAN SCIENTISTS AND ENGINEERS MATURE THE SOCIETAL READINESS OF THEIR RESEARCH PROJECTS?

Literature review

- Preliminary concept

Design phase

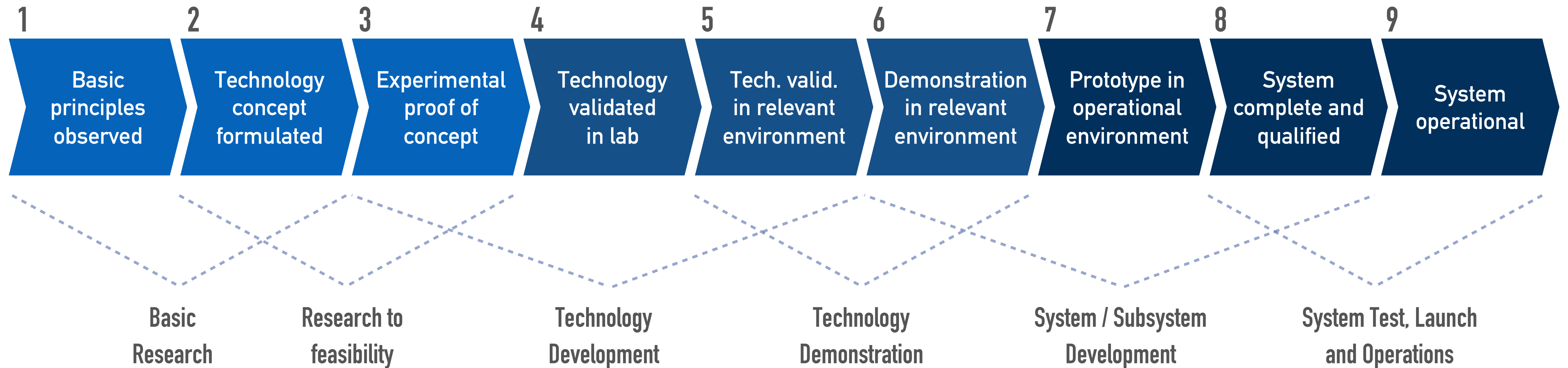
- Preliminary tool
- Workshops with Social Labs

Test phase

- Tool launch (Nov 2019)
- **How, when** and with **what** purpose?

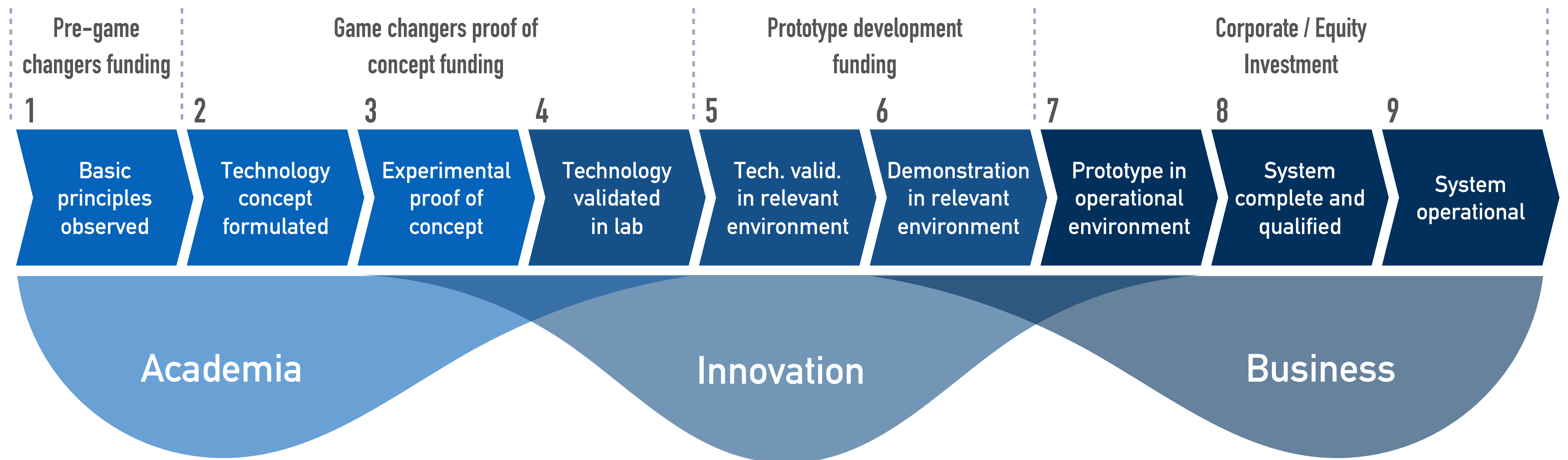
Technology readiness levels in a nutshell

Levels from the general annex G of the Horizon 2020 work programme 2016-2017



Technology readiness levels in a nutshell

Levels from the general annex G of the Horizon 2020 work programme 2016-2017



Challenges: Translation and Measurement

From technology push to **society pull**;
From probable trajectories or forecasting to **desirable futures**;
From technological maturity to **societal appropriateness**.

BUT ON A SCALE!

Is SRL about observed / expected levels of readiness in society or about researchers' / innovators' ability and willingness to consider societal implications?



Adjusting the track

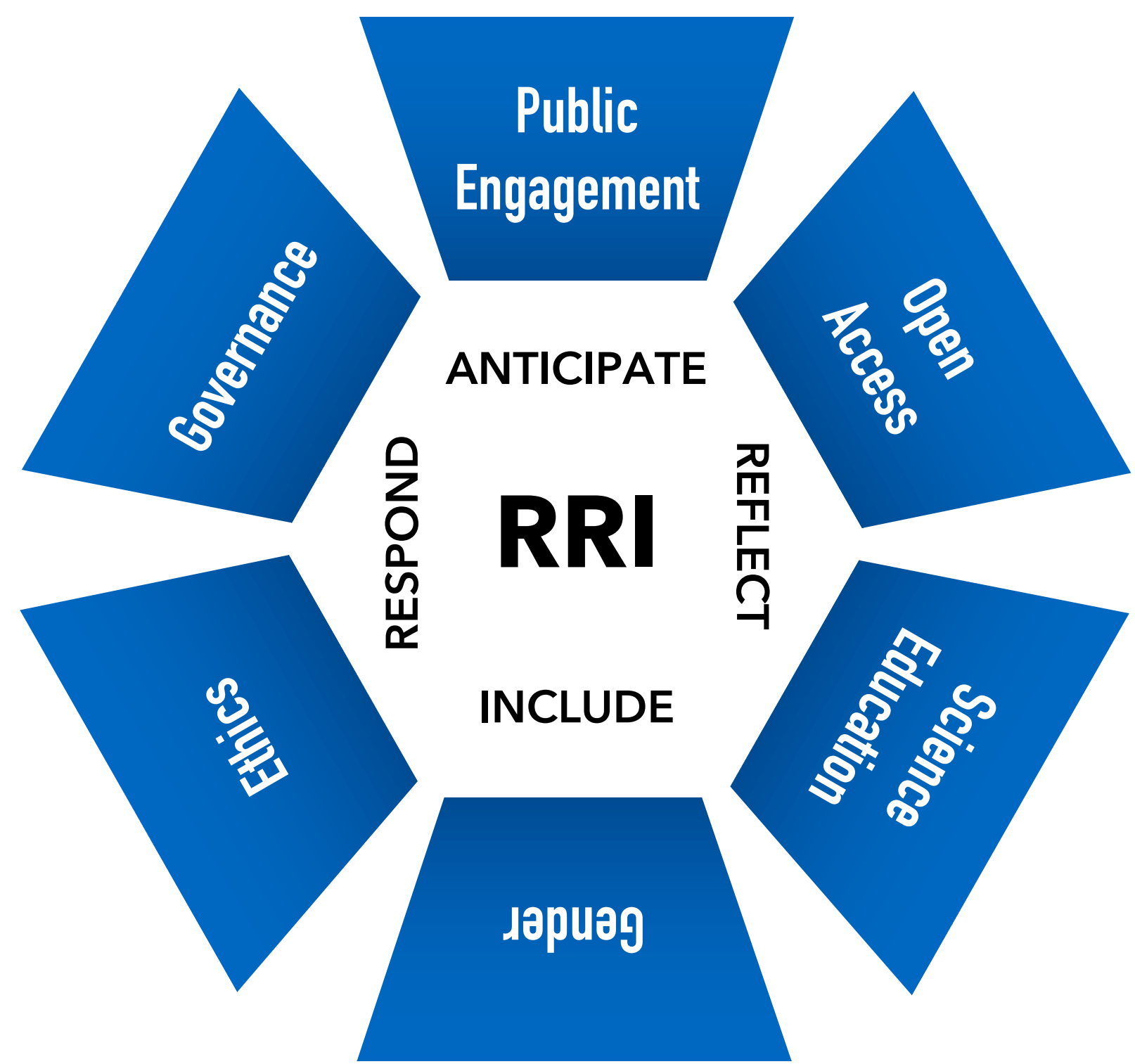
A scale *would not fit* societal readiness,
so the choice was for a 'thinking tool',
tailored to research projects.



Keys and Conditions

The pivotal elements of the Thinking Tool

The *keys* specify the core ingredients of responsibility in RRI projects. The thinking tool contains questions pertaining to the five of six *keys*.



The *conditions* are “devises for reflection” that may help give shape to the research process by cultivating a forward-looking perspective on responsibility.



Research Design & Problem Formulation



Implementation, Data Collection & Testing



Data Analysis & Evaluation



Launching & Dissemination



GATE 1

REFLECT

OPEN ACCESS

What are the potential barriers to making your data, coding and publications open access?

RESPOND

GENDER

How will you address barriers to gender balance in research and leadership?

How do the partner organizations involved in the project approach open access?
 -What are the potential barriers to making your data, coding and publications open access?
 -Do you have valid reasons for not pre-registering your research?
 -Can RRI perspectives be integrated into the training and supervision of project staff, and how?
 -What would it take to better accommodate citizens interested in contributing to your work, and how?
 -What are the barriers to gender balance among researchers and leaders in this project?
 -What are the possible gender and sex dimensions of the problem at stake?
 -What actions should be taken to ensure research integrity and compliance with ethical standards in the project?
 -Does your project involve any risks of negative impacts, and which?

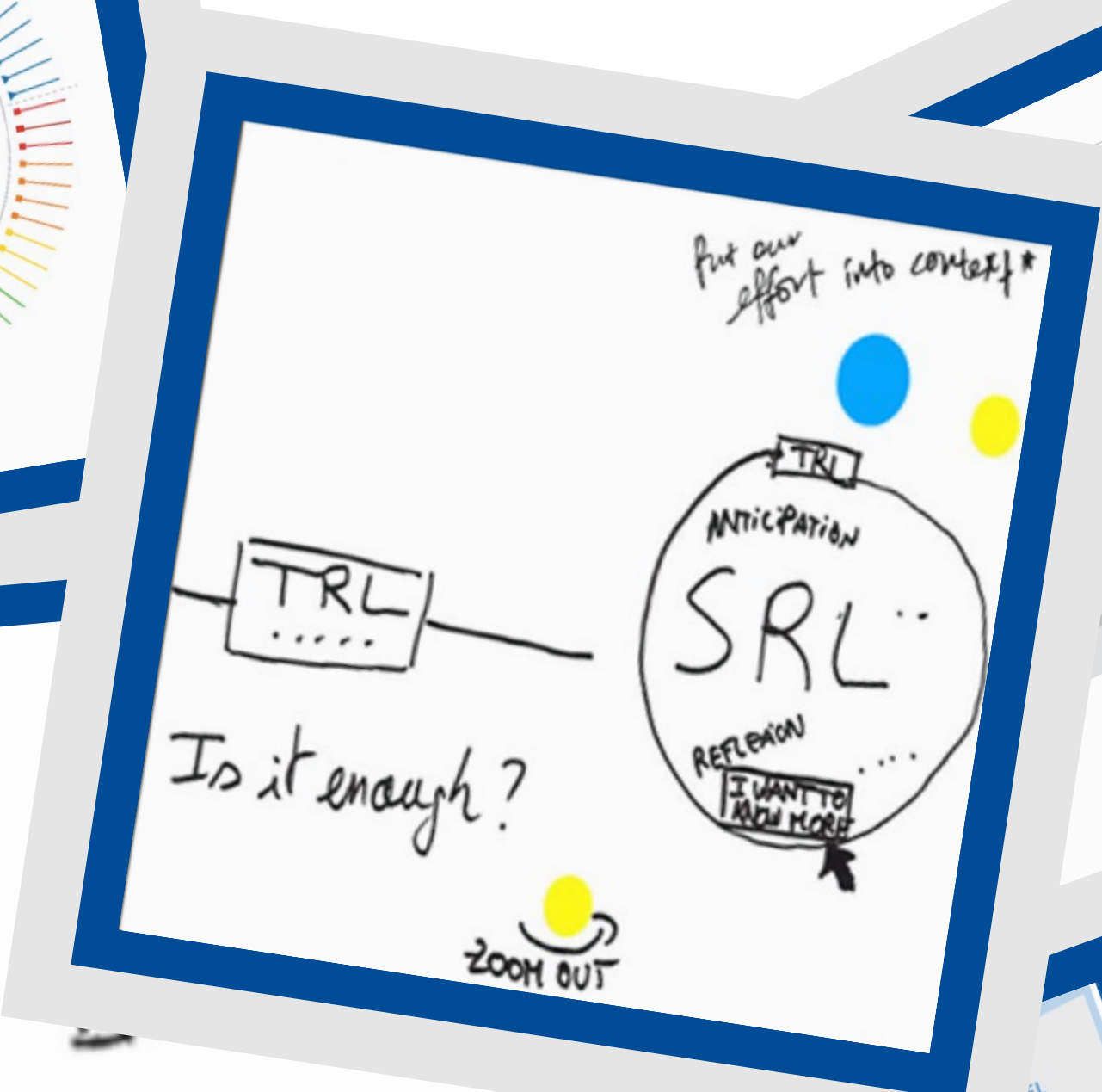
Why are you doing this?
 -Which stakeholders are involved in the project's activities, and why?
 -Will your educational activities be taken into account?
 -What can be done to ensure a balance among researchers in this project?
 -Who will be involved in identifying the ethical issues and possible solutions to these issues in your project?

in a

Edit Quest.

1. Q: Have you...
 A: Anticipate

2. Q: Did you...
 Reflect

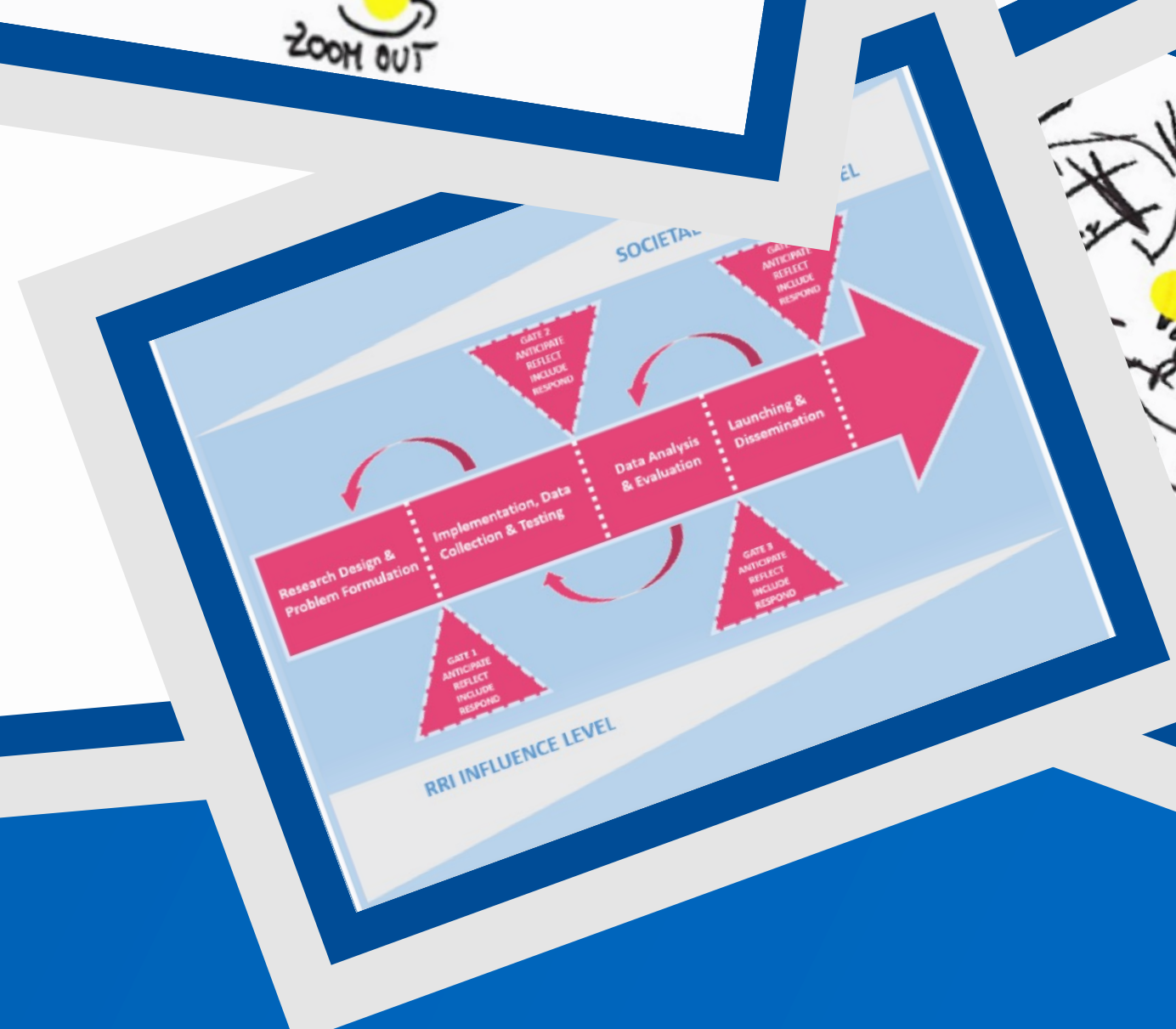


I want to...

EP1 EP2

↑

(entry point clusters)



What do you think through?

gate 1

OTHER I

Need THAT

OTHER CL

Are here

Would you



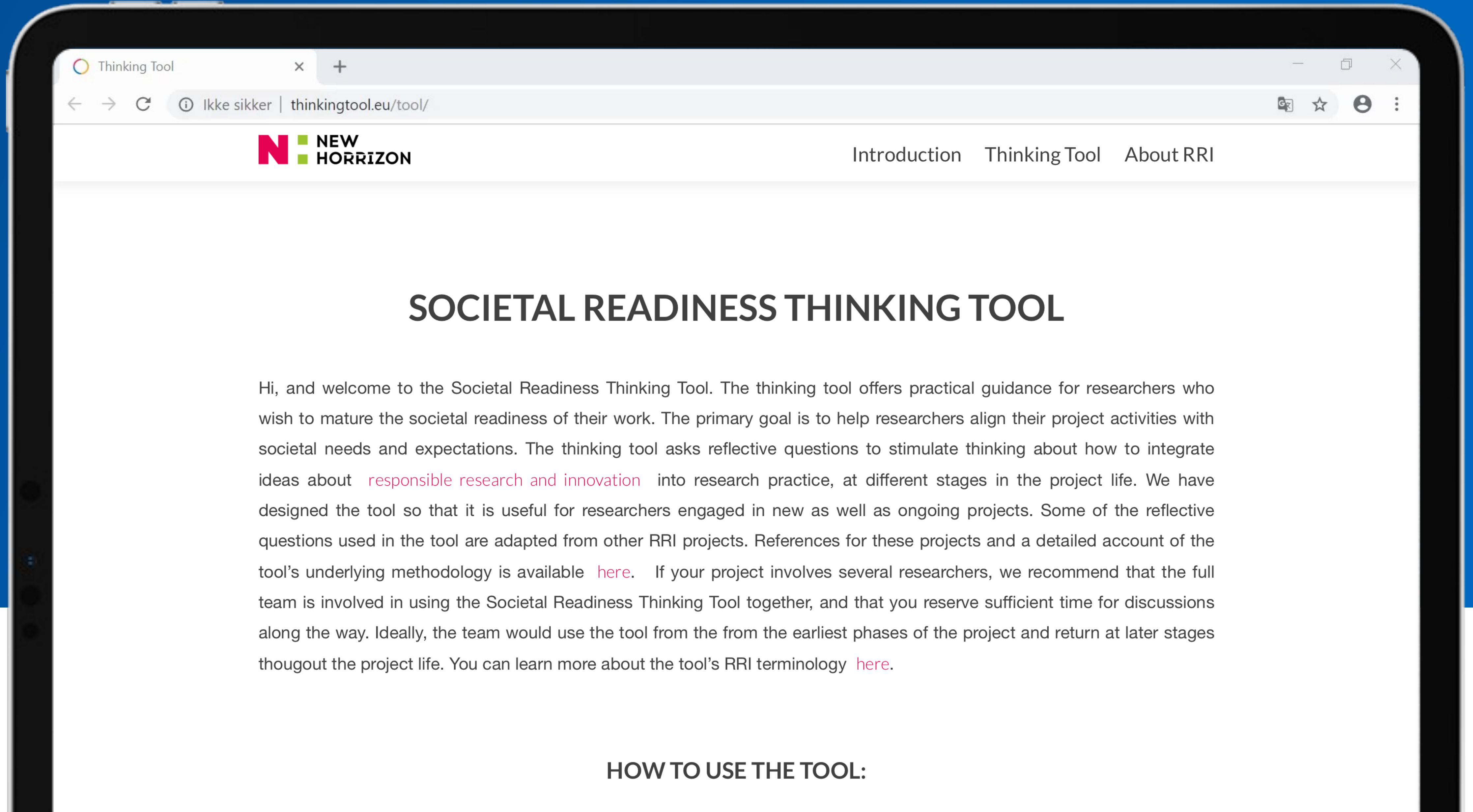


Puts the effort into context (from TRL to SRL)

Shows the four gates, with a clear overview of where you are

Guarantees user differentiation and entry points

Exhibits the four conditions and five (six) keys of RRI



Working on improvements

Evolution based on stakeholders feedback

Researchers

Thinking-aloud sessions were organised with researchers involved in SwafS projects.

Research Staff

Focus groups were held to collect perceptions about the tool.

Social Labs

The tool has been discussed within SL, to collect relevant feedback. (SwafS, Health, Marie Curie).

Funding Agencies

Agencies such as NWO, NWA, ZonMw and the RRI Network have manifested interest.



Continuing Issues / Next Steps



Important Decision

Data repository
for research?

Awareness & Uptake

Communication and
outreach

Encourage use in context
of Horizon Europe

Sustainability

Final workshop and report
(including SL evaluation)

Maintenance beyond
NH project



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<http://bit.ly/2Z6KqJp>