

Principles of Responsible Research and Innovation (RRI)

Info-Day **CARDINNOV call 2023**

Cecilie A. Mathiesen,

ERA4Health Pillar III leader and RRI task leader

13 December 2022

This presentation

What is RRI

Development from
Horizon 2020 to
ERA4Health

RRI in ERA4Health

- Integrated/as part of
the Partnership

RRI in research proposals to ERA4Health

- What do we expect from
the proposal writers?

RRI evaluation

Scientific experts view

Three fundamentals to build you responsibility approaches (RRI) on

- Added value of RRI
- Continuous process
- Specific scientific context

What is RRI

Based on that Research and innovation should

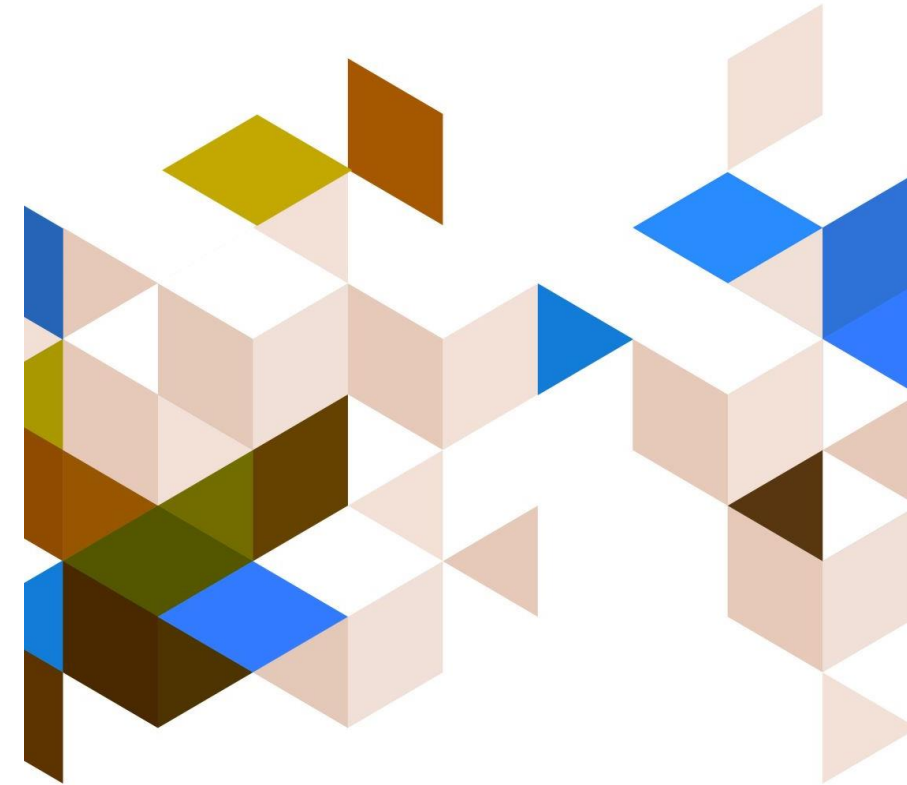
- Address societal needs
- Avoid undesirable side effects if possible

Responsibility integrated into research and innovation practices

- Responsibility cannot be outsourced
- But transdisciplinary collaboration is good!

Responsibility related to

- *social, environmental, ethical or political issues*



Implementation of RRI in ERA4Health:

SRIA: Taking an RRI approach implies to take actions that may include to

01. Anticipate

the future known and unknown **risks** associated with a science or technology;

02. Include

a broad range of **stakeholders** in the development of science and technologies;

03. Reflect

on the underlying **assumptions and values** driving a scientific research project;

04. Respond

to **these processes** by incorporating their outcomes into **the design** of research projects and funding programmes.

RRI is not «shaped» as in Horizon 2020....

Ethics, Gender and Open Science are separate important cross-cutting issues

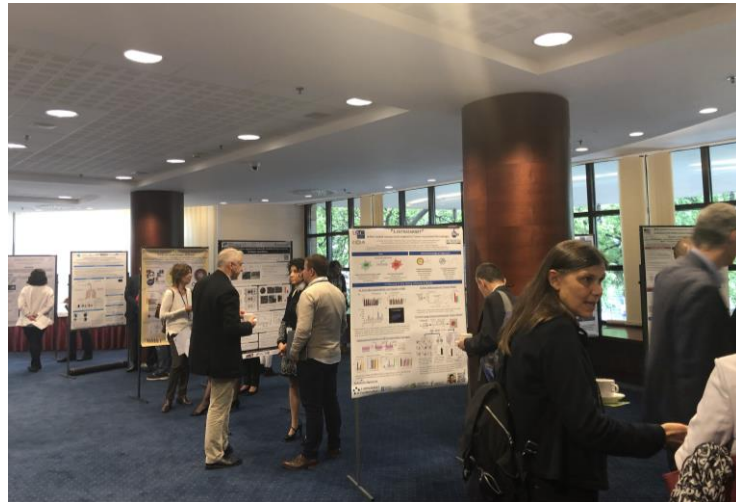
“ Specific Objective 4 of ERA4Health

- Implementation of Responsible Research and Innovation principles
ERA4Health will *implement and develop* Responsible Research & Innovation (RRI) and other cross cutting objectives in multiple ways *from the Partnership operationalization to the implementation of calls or the project evaluation* and will self-assure that research performed under the frame of ERA4Health respects RRI principles.
- ERA4Health will promote research that anticipates and assesses potential implications and societal expectations with regard to research and innovation, with the aim to *foster the design of inclusive and sustainable research and innovation to ensure a true societal impact.*



Co-creation workshop to further develop the EuroNanoMed III RRI Guidelines

(Bratislava May 2019)



Using a common meeting place:
Review seminar for funded nanomedicine research projects



Co-creation by using
- RRI and nanomedicine scientists
- Experts Advisory Board
- Peer review panel members
- Funding Agency representatives (the ERA-NET partners)



Documenting the outcome and using it in the shaping of updated RRI Guidelines
(October 2019)

RRI in a proposal to ERA4Health

The CARCINNOV Call text

- Explain how the project will demonstrate a commitment for investigating and addressing social, ethical, political, environmental or cultural dimensions of **the proposed research**.
- The proposal template further elaborates on this and how RRI dimensions can be approached.

RRI related to other issues

- RRI is closely related to other cross-cutting issues, and actions can be taken that address both RRI and other important values, such as **public/user engagement, open science or ethical assessments**

The Pre-proposal application form

7. Responsible Research and Innovation (RRI) and other cross cutting issues:

a. General RRI aspects *(max 0,5 page)*

- **Responsible research and innovation (RRI)** is an approach that anticipates and assesses potential implications and societal expectations with regard to research and innovation, with the aim to foster the design of inclusive and sustainable research and innovation to ensure a true societal impact.
- RRI implies that societal actors (researchers, health care systems, citizens, policy makers, industry, third sector organisations, etc.) work together during the whole research and innovation process in order to better align both the process and its outcomes with the values, needs and expectations of society.
- As the involvement of societal groups is essential in RRI it is often connected to co-creation, co-design and co-production – methodologies in which R&I projects are structured to include stakeholders from the outset (e.g. users or interest groups) – and is related to the general Open Science agenda. RRI can also involve interdisciplinarity, with the inclusion of expertise from the social sciences and humanities (SSH). Being inclusive also implies taking diversity seriously.

b. Stakeholder Involvement *(max 0.5 page)*

- Describe the role and contribution of operational stakeholders (e.g. patient advocacy groups, citizens and/or citizen representatives, local communities, schools, municipalities, local/national NGOS, consumer organisations.)
- Describe the level of involvement for each stage of the research
- Explain reasoning behind involving/not involving certain stakeholders

c. For projects with high potential of applicability at short/medium term *(max 0,5 page)*

- Expected time for market and transfer to patient towards clinical and public health applications, pharmaceutical/health device applications, other industrial applications including market and end user's scenario, quality of dissemination, exploitation and business plan.

d. Ethical considerations

- The proposal complies with ethical principles (including the highest standards of research integrity — as set out, for instance, in the European Code of Conduct for Research Integrity — and including, in particular, avoiding fabrication, falsification, plagiarism or other research misconduct).....



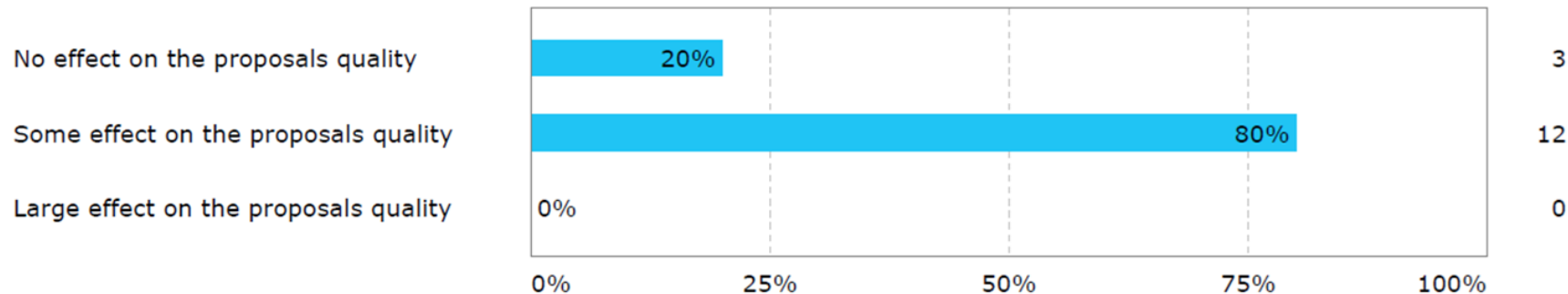
CARDINNOV Call text:

The reviewers will perform the assessment of the pre-proposal and complete a written evaluation form with scores and comments for each evaluation criterion.

The consortia will receive the evaluation, and where necessary will include advice on their RRI approach.

Evaluating RRI aspects in a proposal (EuroNanoMed JTC2017)

Generally, how do you find the RRI request effected the over-all quality of the projects?

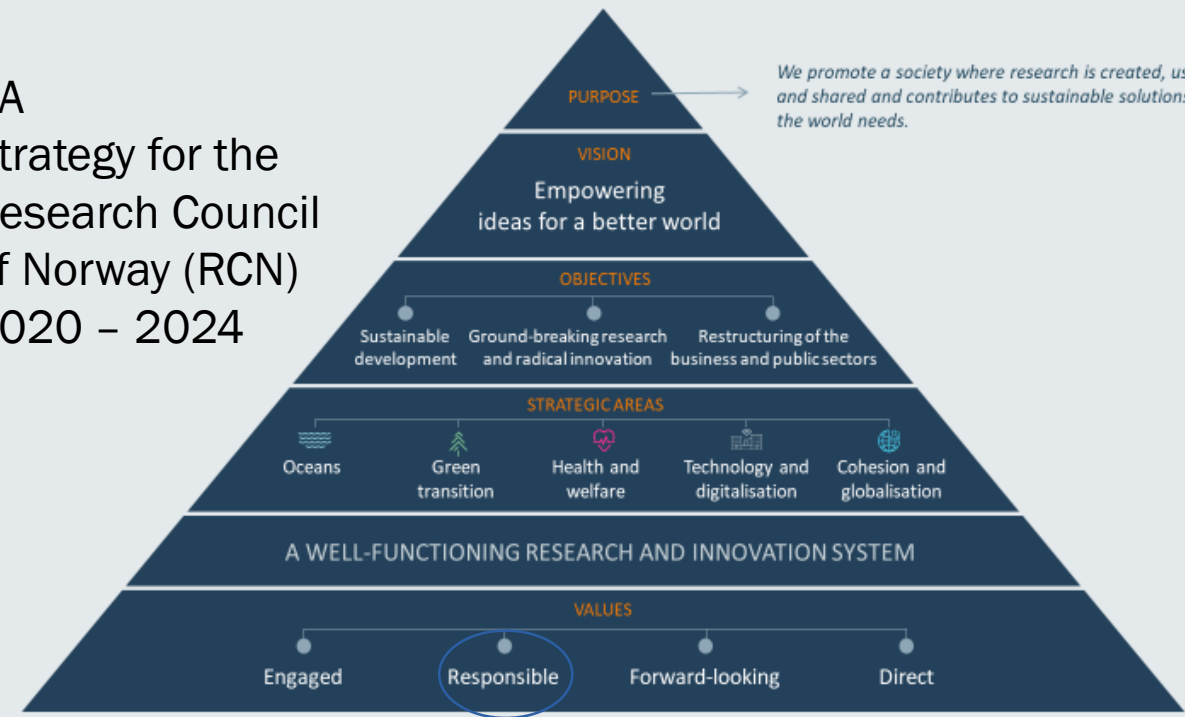


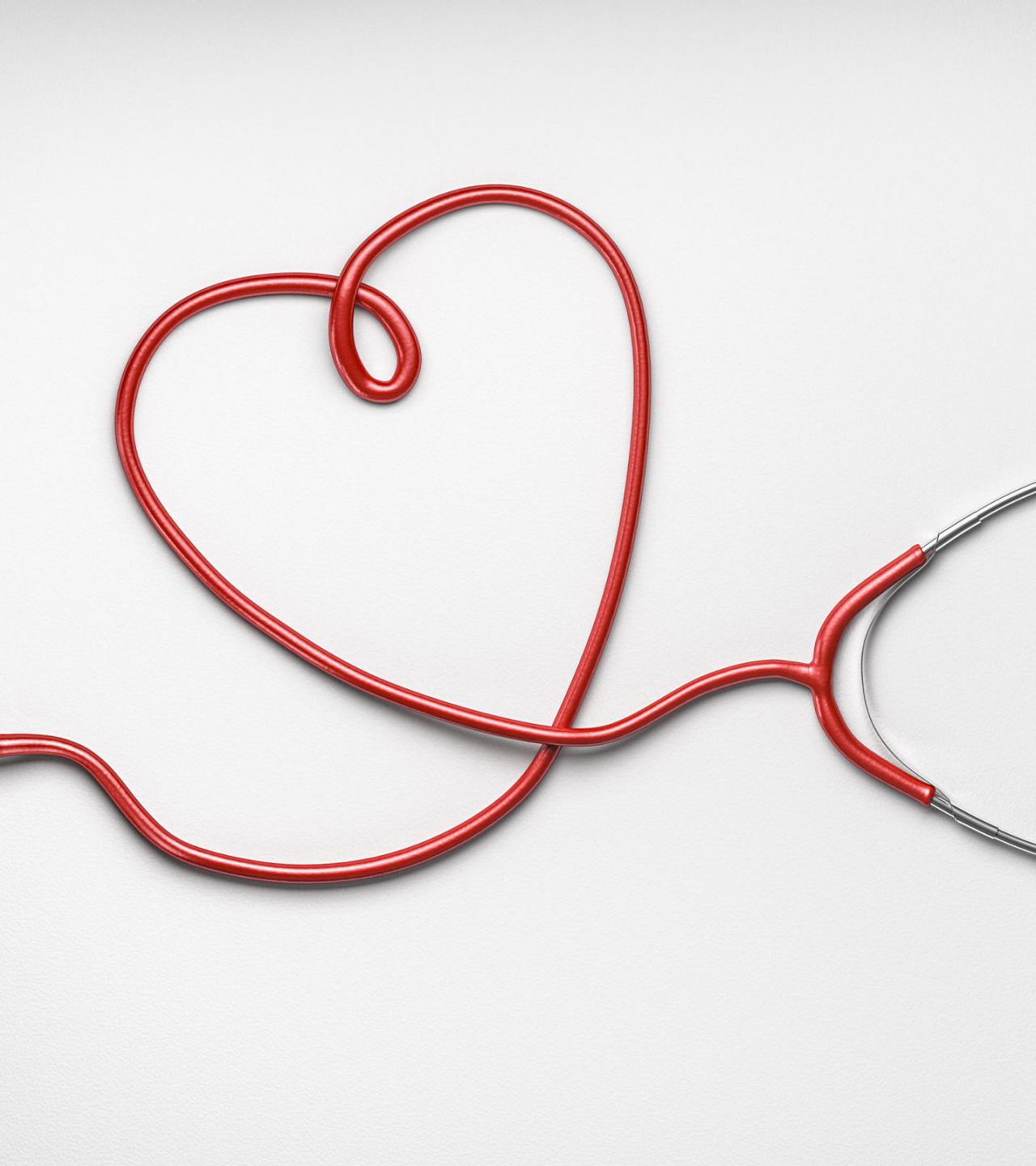
Three fundamentals to build your responsibility approaches (RRI) on

- A. Having collaborative or institutional will to “do” RRI and an understanding of RRI added value
- B. Understanding responsibility/RRI as developing and continuous processes
- C. Putting the responsibility discussions in a concrete scientific context



1A Strategy for the Research Council of Norway (RCN) 2020 – 2024





Thank you

Cecilie A. Mathiesen

cam@forskningsradet.no

