



# NanoCode project: results, CodeMeter and MasterPlan

Maite Fernández  
Phantoms Foundation

Tenerife 23rd November 2011

[maite@phantomsnet.net](mailto:maite@phantomsnet.net) Tel: + 34 911 123 387



# Summary



**Part 1: NanoCode project**

**Part 2: CodeMeter**

**Part 3: MasterPlan**

# NanoCode Project – Partners



AIRI/NanotecIT, Italy (Coordinator)



The Innovation Society Ltd., Switzerland



Institute of Nanotechnology, UK



University of Stuttgart, Germany



Commissariat à l'énergie Atomique, France



Phantoms Foundation, Spain



The Technology Centre of the Academy of Sciences, Czech Republic



Centro Atomico Bariloche (CAB), Argentina



The Department of Science and Technology, Republic of South Africa



Technische Universiteit Delft, Netherlands

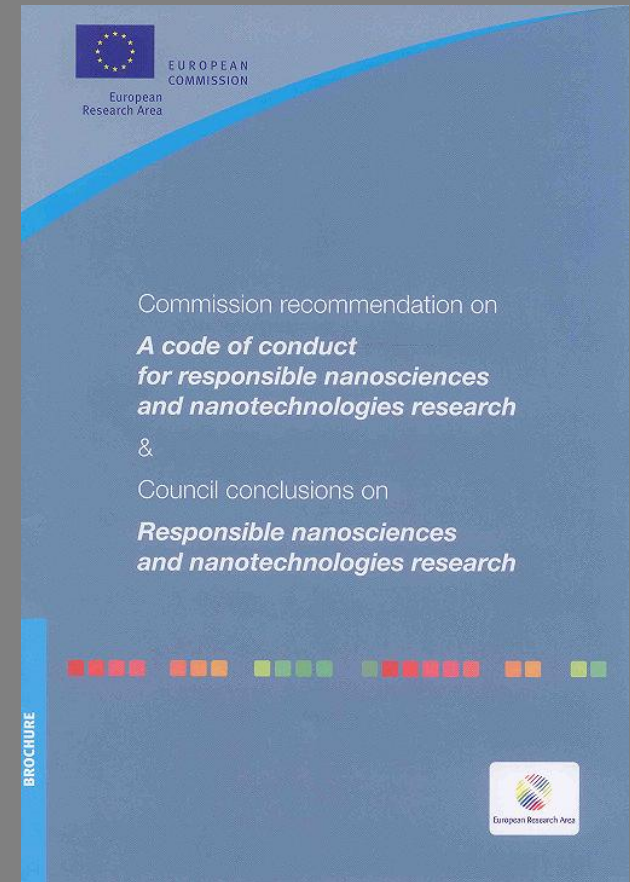


Korea Institute of Science and Technology, Korea (ASSOCIATED MEMBER)

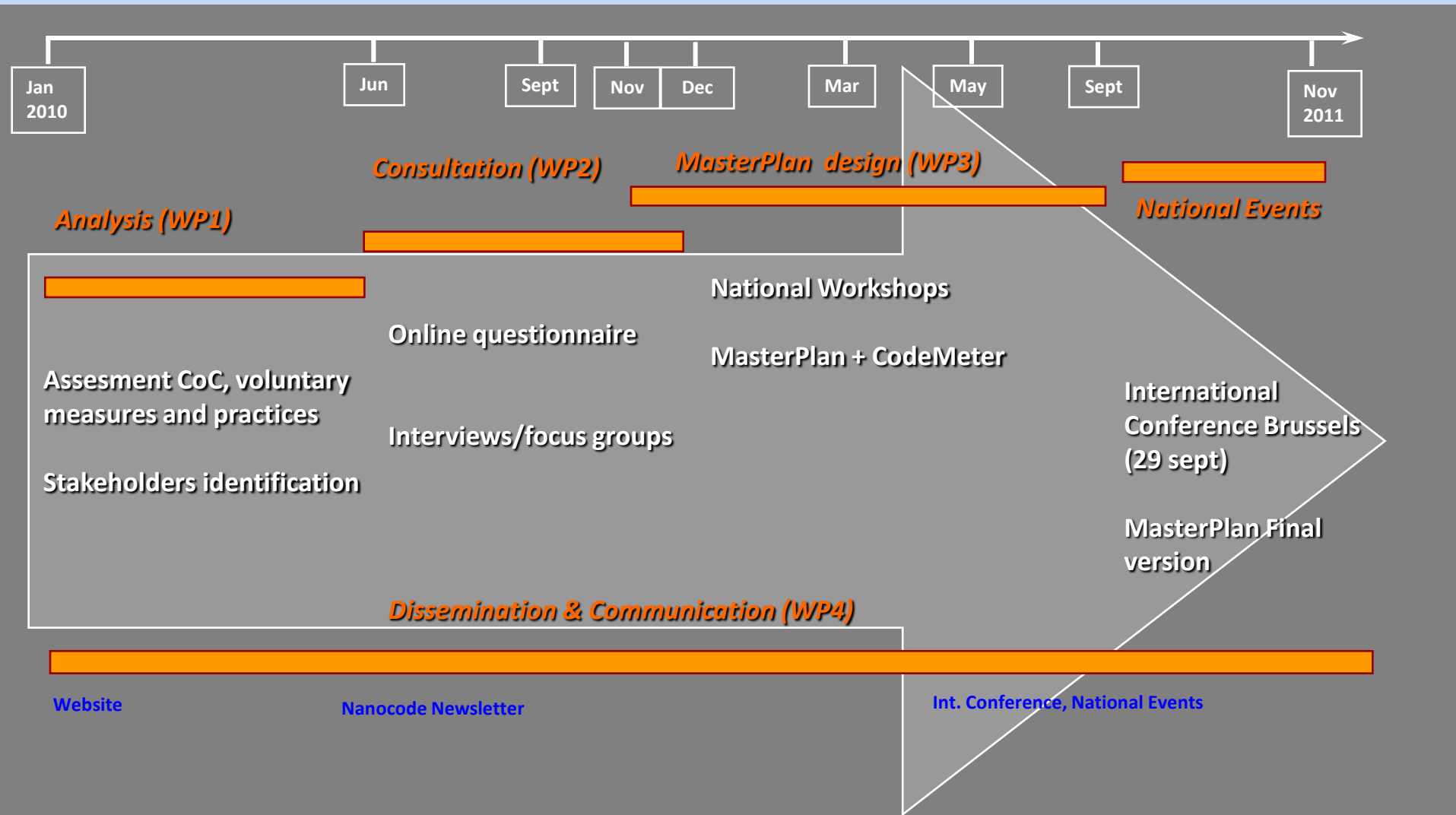
# NanoCode Project – Commission recommendation

## The general principles driving the Code of Conduct

- **Meaning** *(comprehensible to the public)*
- **Sustainability** *(contribute to a sustainable development)*
- **Precaution** *(anticipate EHS&ELSA impact)*
- **Inclusiveness** *(participation in decision-making processes of all stakeholders)*
- **Excellence** *(meet best scientific standards, of integrity and best practice)*
- **Innovation** *(encourage maximum creativity)*
- **Accountability** *(researchers and research organizations should remain accountable of their research)*



# NanoCode Project – Time plan



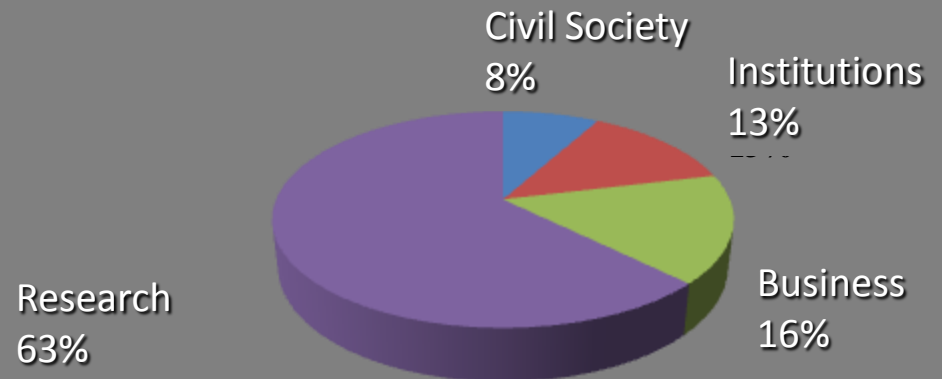
# NanoCode Project – Results

## Analysis

The EC CoC not yet formally adopted/implemented in the Countries surveyed  
*but compliance is being made a mandatory condition for government funding in The Netherlands*

## Consultation

- 304 Questionnaires (online)
- 118 Interviews



# NanoCode Project – Results

- The Code is seen as an **appropriate tool** to implement these principles
- **Unambiguous agreement** on the seven principles
- **Encourages dialogue** among the stakeholders on important societal issues

BUT

- Some of the principles and guidelines are **too general**, often related to more than one principle
- **Ambiguity of the meaning of some principles** put in question their acceptability
- **The Code interferes** with national initiative/policies and it is perceived as another level of **bureaucracy** with the purpose of controlling researchers' work
- **Lack of clear benefits and incentives** if adopted
- **Not adequate communication/endorsement** at institutional level

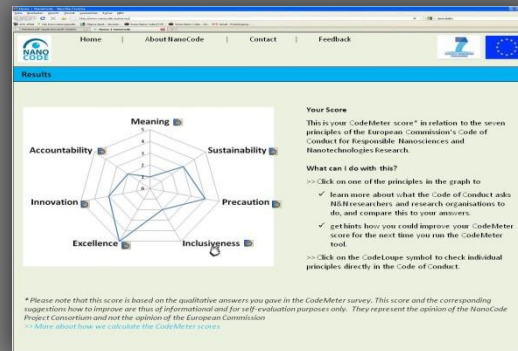
# NanoCode Project – CodeMeter

## CodeMeter: self-assessment / monitoring tool

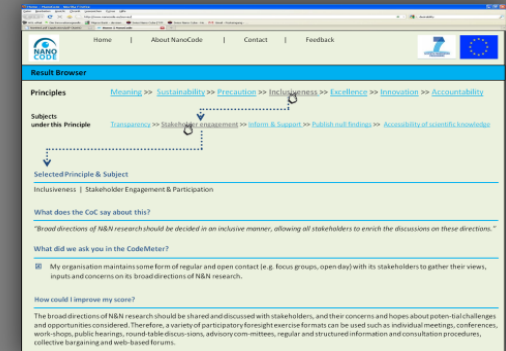
### 1. Questions



### 2. Results



### 3. Hints How to Improve





# NanoCode Project – CodeMeter - Questions

Home | About NanoCode | Contact | Feedback

Overall Progress 69 %

**Guideline 4.1.2**

*“Research organisations and researchers [...] are encouraged to make easily accessible and understandable by lay people as well as by the scientific community all N&N scientific knowledge as well as related information [...]”*

Please mark with a tick those statements which apply to you or your organisation:

- In my organisation, I am explicitly encouraged (e.g. through organisation policies, the mission statement, or my employment contract) to publish publicly funded scientific N&N knowledge in open access media.
- In a dedicated section of my organisation’s website, recent N&N research news are presented to the interested public in a way which is easily comprehensible.
- In the planning phase of publicly funded N&N research projects I take into account the expected efforts to preserve and make the N&N research results accessible.
- In disseminating my N&N research results, I provide adapted versions which are comprehensible to a broader readership (e.g. consumers, interested public) and not scientists only.

**Information about this Guideline**

**What is „open access“?** According to the Berlin Declaration, Open Access publication requires that authors grant free access to their scientific contributions, as well as the possibility to use them. 294 research organisations are part of the Open Access Initiative and have signed the Berlin Declaration, which is still open for signature. Sharing an open access to publicly funded research data not only helps to maximise the research potential public investment in research. >> [more](#)

**The Open Access Initiative**  
>> [Open Access Initiative and Berlin Declaration \(2003\)](#)

**EC position accessibility to research data**  
The EC Communication objective is to signal the importance of and launch a policy process on access to and dissemination of scientific information, and strategies for the preservation of scientific information across the EU.  
>> [Scientific information in the digital age: Access, dissemination and preservation \(EC, 2007\)](#)  
>> [Open Access Handbook by the European Commission](#)

**OECD position about accessibility to research data:**  
>> [OECD Principles & Guidelines for Access to Research Data from Public Funding](#)

<< previous question      next question >>

Wording of the CoC Guideline

Further information about key aspects of the CoC Guideline

Questions

# NanoCode Project – CodeMeter – Results Overview

**Home** | **About NanoCode** | **Contact** | **Feedback**

## Results

### Your Score

This is your CodeMeter score\* in relation to the seven principles of the European Commission's Code of Conduct for Responsible Nanosciences and Nanotechnologies Research.

#### What can I do with this?

- >> Click on one of the principles in the graph to
  - ✓ learn more about what the Code of Conduct asks N&N researchers and research organisations to do, and compare this to your answers.
  - ✓ get hints how you could improve your CodeMeter score for the next time you run the CodeMeter tool.
- >> Click on the Code Lounge symbol to check individual principles directly in the Code of Conduct.

*\* Please note that this score is based on the qualitative answers you gave in the CodeMeter survey. This score and the corresponding suggestions how to improve are thus of informational and for self-evaluation purposes only. They represent the opinion of the NanoCode Project Consortium and not the opinion of the European Commission*

[>> More about how we calculate the CodeMeter scores](#)

**Spider Net**  
visualisation of overall Principle scores.  
*Comparing scores against all users or over time (planned)*

**Click on a Principle** to get a detailed evaluation and Hints How to Improve

# NanoCode Project – CodeMeter – Hints to improve

Home | About NanoCode | Contact | Feedback

**Result Browser**

Principles [Meaning](#) >> [Sustainability](#) >> [Precaution](#) >> [Inclusiveness](#) >> [Excellence](#) >> [Innovation](#) >> [Accountability](#)

Subjects under this Principle [Transparency](#) >> [Stakeholder Engagement](#) >> [Inform & Consult](#) >> [Publish Null Findings](#) >> [Accessibility of Scientific Knowledge](#)

**Selected Principle & Subject**

Inclusiveness | Stakeholder Engagement & Participation

What does the CoC say about this?

*"Broad directions of N&N research should be decided in an inclusive manner, allowing all stakeholders to participate in the discussions on these directions."*

What did we ask you in the CodeMeter?

My organisation maintains some form of regular and open contact (e.g. focus groups, open day) with its stakeholders to gather their views, inputs and concerns on its broad directions of N&N research.

How could I improve my CodeMeter score?

The broad directions of N&N research should be shared and discussed with stakeholders, and their concerns and hopes about potential challenges and opportunities considered. Therefore, a variety of participatory foresight exercise formats can be used such as individual meetings, conferences, work-shops, public hearings, round-table discussions, advisory committees, regular and structured information and consultation procedures, collective bargaining and web-based forums.

Select a Principle and an Aspect

CoC Guideline text related to the selected Aspect and question asked

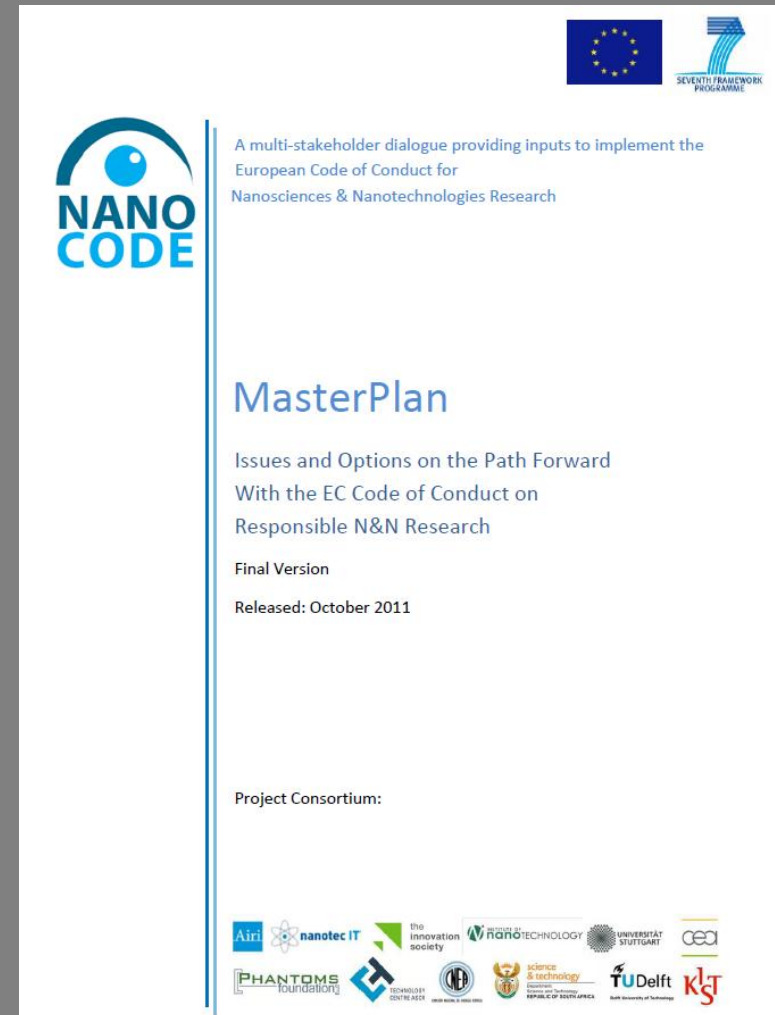
Suggestions how to improve compliance with the CoC and achieve better scores

# NanoCode Project – MasterPlan

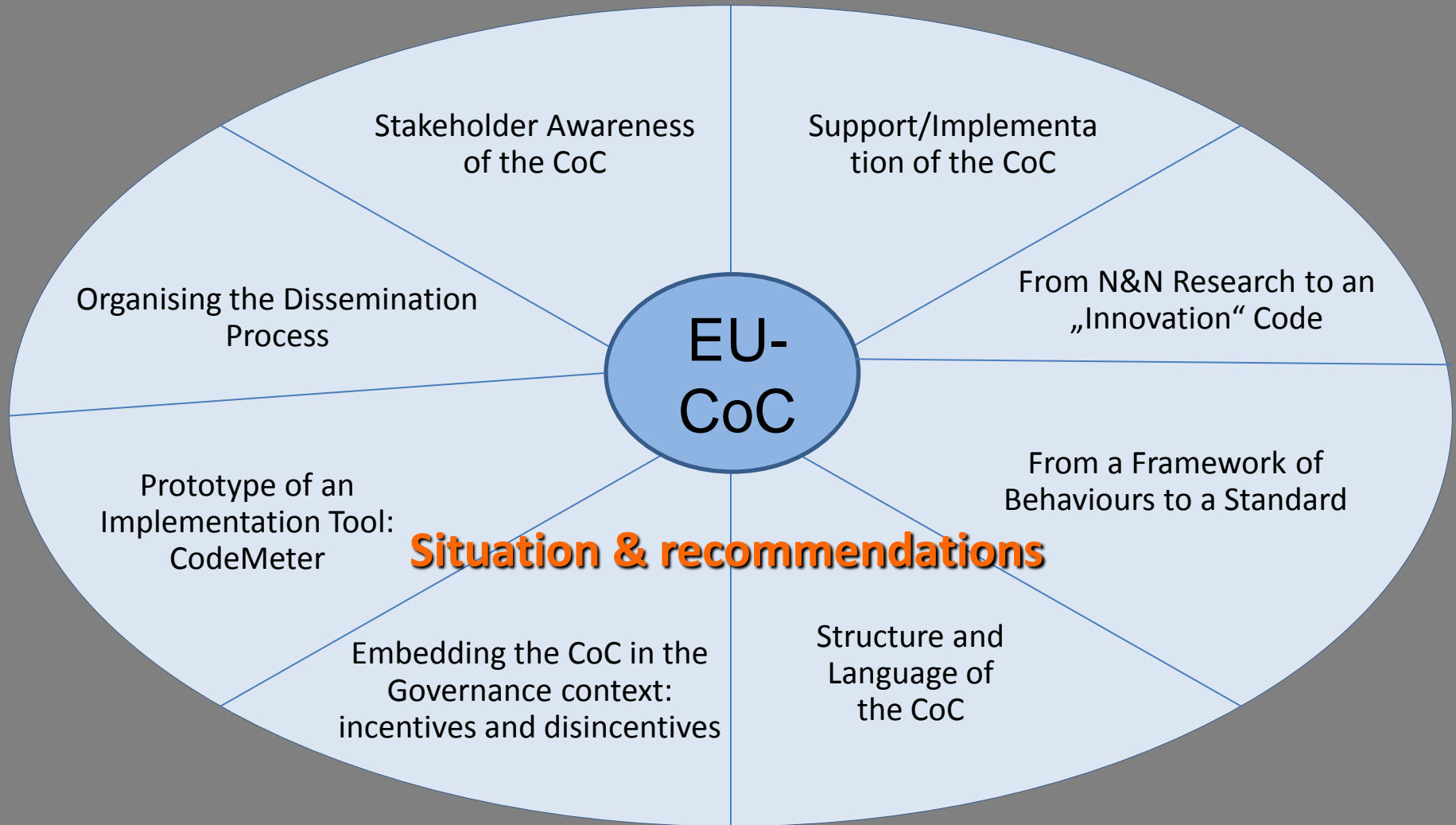
## MasterPlan

The MasterPlan is NanoCode's deliberative output for the EC

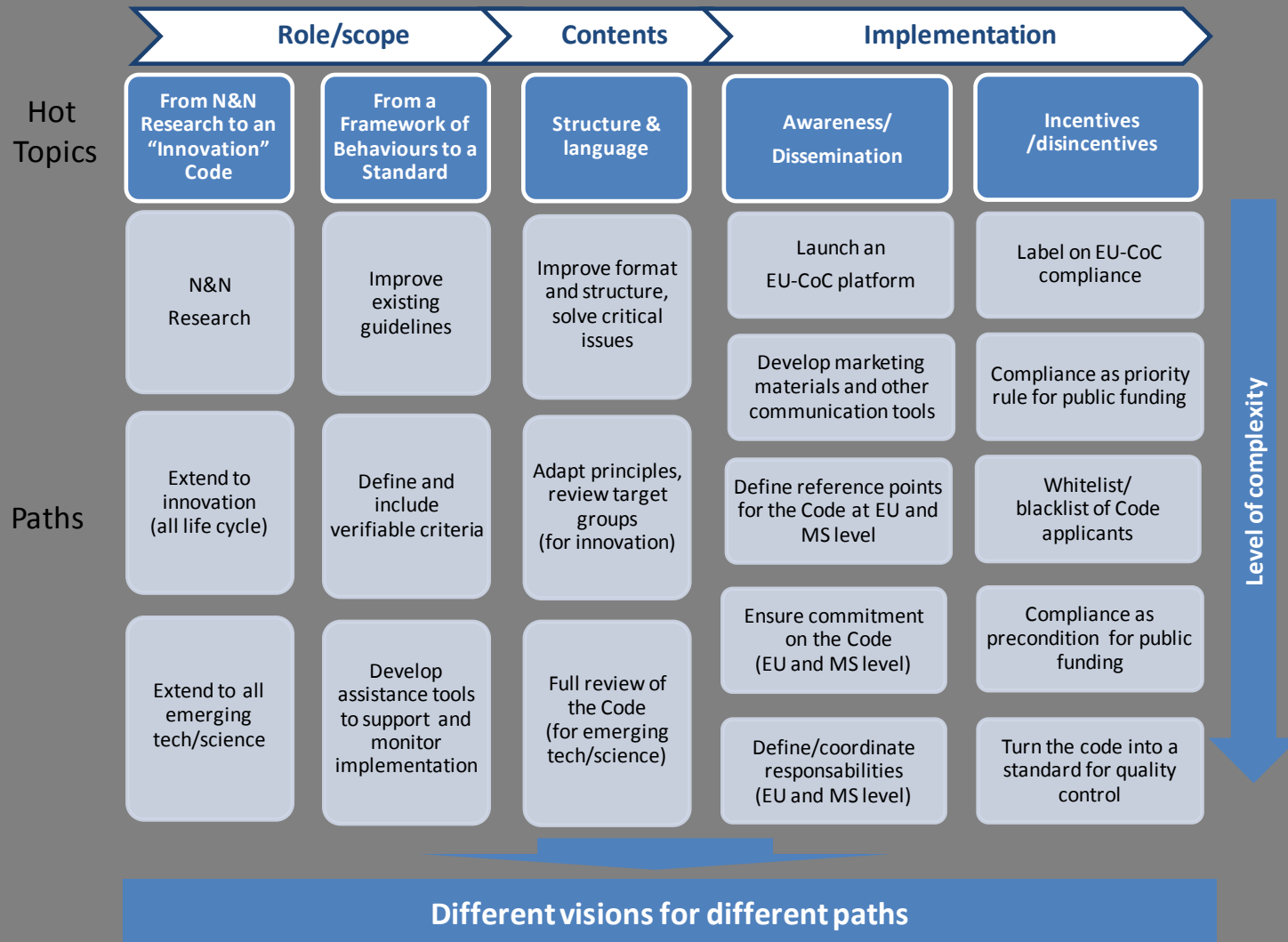
- Assessing experiences with **existing voluntary measures** and CoCs in each partner's countries.
- Identifying N&N experts in Europe and beyond and **exploring the level of awareness, dissemination and implementation of the EC CoC in each Partner country** (including attitudes, the level of agreement or disagreement with the CoC principles and possible ideas about the CoC in a quantitative survey (304 responses)).
- Conducting **in-depth interviews** to deepen some aspects emerging from the quantitative survey (118 participants).



# NanoCode Project – MasterPlan



# NanoCode Project – MasterPlan



# Thanks

Maite Fernández

[www.phantomsnet.net](http://www.phantomsnet.net)

[maite@phantomsnet.net](mailto:maite@phantomsnet.net)

Tel +34 911 123 387

