# The Societal Incubator and nanofood A solution for "waiting games"?

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# Structure presentation

- NanoNextNL:
- What is a Societal Incubator?
  - Brief description
- Why do we need a Societal Incubator?
  - "Waiting Game"
  - Uncertainties
- Societal Incubator in action: ChocoFe
- What did we learn from our exploration?



# This is NanoNextNL

NanoNextNL is a Dutch consortium of more than one hundred companies, universities, knowledge institutes and university medical centres, aimed at research into micro and nanotechnology.



#### **Partners**

NanoNextNL's partners are companies, universities, knowledge institutes and university medical centres, all using micro and nanotechnology to create new solutions.



#### Researchers

Nanotechnology experts from academia and industry collaborate to develop new technology for innovative solutions and together train over 200 highly skilled young scientists.



#### **Finance**

The total budget of
NanoNextNL is 250 million
euros: half of which is
contributed by the 130
partners, the other half by the
Government of the
Netherlands.

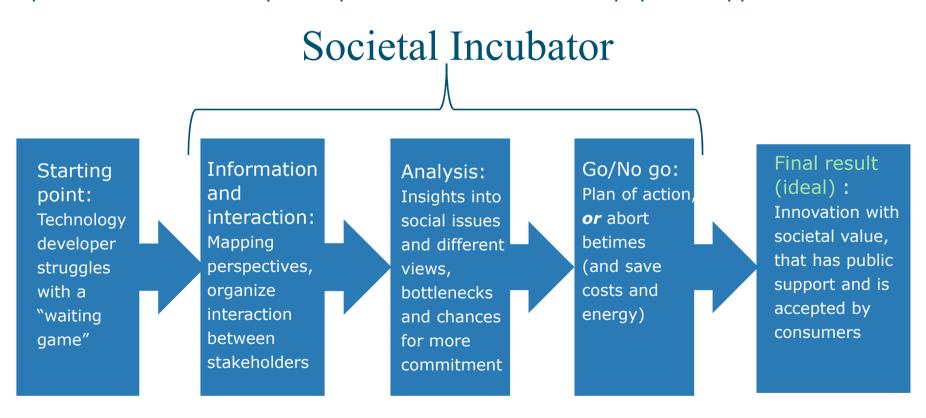


#### **Timeframe**

NanoNextNL will contribute to solutions for major societal questions such as keeping an ageing society healthy and keeping our environment liveable in a changing climate.

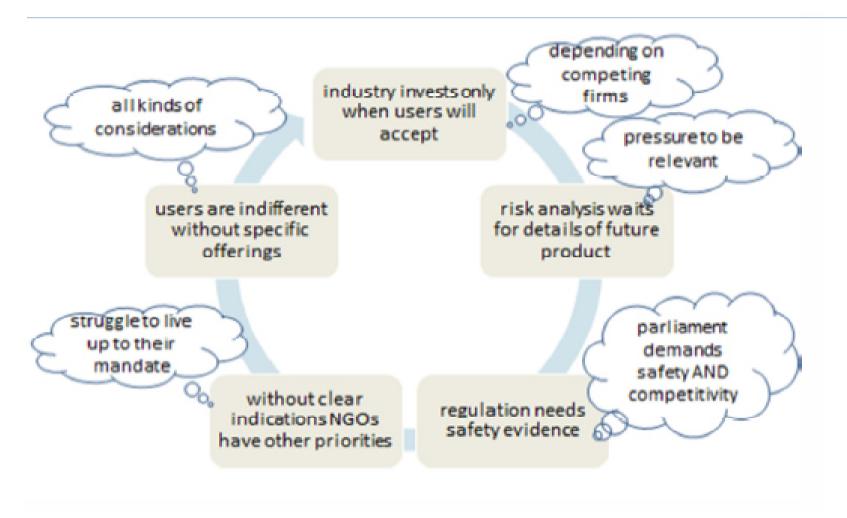
# A Societal Incubator builds on cTA-tradition and relates to Responsible Research and Innovation.

"A Societal incubator creates conditions for an open and participatory learning process and aims to speed up RRI and its chances on popular support"





### Why a Societal Incubator? To tackle waiting games



Source: Harro van Lente 2015



### A Societal Incubator addresses uncertainties

Strand of uncertainty	Evaluation criterion	<b>Possible tools</b> e.g.NanoNextNL	
Technological- scientific	Does it work?	Research and education	
Business economics	Is there a good business model?	Business incubator	
Administrative- regulatory	How does it relate to policy/regulation?	Societal Incubator	
Societal-Ethical	Societal acceptance and desire?		

## Societal Incubator and business incubator

Incubator type	Resources	Protected space	Coaching
business incubator (specific inno- vation; one firm)	venture capital; office support; ICT and other infrastructure	small scale pilots; possibilities for trial and error	peer efforts; business consultancy
societal incubator (range of inno- vations in a sector; more firms and other actors)	technical background studies; actor mappings; foresight / roadmapping	mutual trust; suspense of judgment	collective learning; learn from similar cases



Source: Harro van Lente 2015.

## Societal Incubator: different motivations

Technology developers	More chances on success Societal Responsible Innovation
Firms / business	Economic profit Societal Corporate Responsibility
Government / policy-makers	Realizing policy objectives, more insight into quality and effects of regulation
Societal organisations	Exercising influence, keeping a critical eye on the development of new technology



# Pilot: Business case ChocoFe (March 2016

- Not easy to involve NGOs and to find a business case
- Chocolate product fortified with iron fortification, encapsulated with nanotechnology, that can help to solve the iron deficiency of teen aged girls
- Uncertainties on all strands:
  - Technological-scientific
  - Business economics
  - Administrative-regulatory
  - Societal-Ethical
- Chatham House Rule

When a meeting, or part thereof, is held under the Chatham House Rule, participants are free to use the information received, but neither the identity nor the affiliation of the speaker(s), nor that of any other participant, may be revealed.



# What did we learn from our exploration?

- More preparation needed
  - Business case should have substantial clarity on technological and economic uncertainties
- Beware for a too narrow case oriented approach?
  - Tendency innovators to focus on consumer acceptance
  - Provide room for discussions on societal values
- Collective learning processes are also possible when NGOs/CSOs do not (or are not able to) participate
- Trust remains and will remain an important focal point



# Questions?

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