



COST Action MP1106 – Workshop Prague, 21-22 March 2013

Smart & Green Interfaces:

From Single Bubbles/Drops to Industrial/Environmental/Biomedical Applications

ROUND TABLE ORGANIZATION

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Round Table objectives

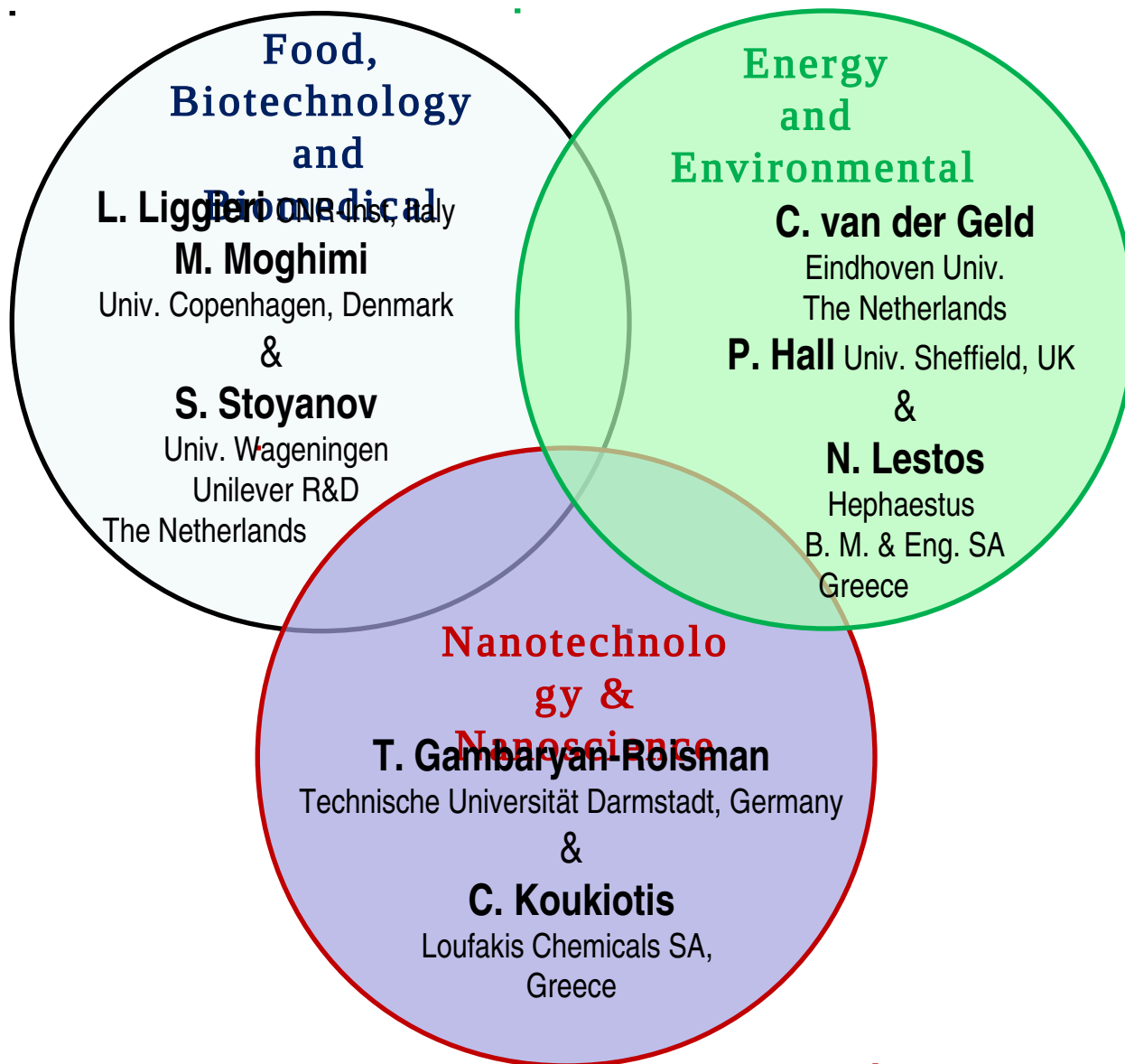
- ✓ Setting up consortia among the partners for application to open or forthcoming calls for proposals related to smart and green interfaces
- ✓ Foster collaborations among partners
- ✓ **Setup of clusters gathering people from the action in view of Horizons 2020**



Suggested approach

Role of moderators

1. **Two moderators** per round table, one from academia and the other from industry
2. **Industrial** moderator:
Identify topics of interest for industrial applications and potentially capable to attract industrial participation
3. **Academic** moderator:
connect industrial applications to more fundamental research write a 1 page report on the round table discussion and provide some follow-up after the meeting.





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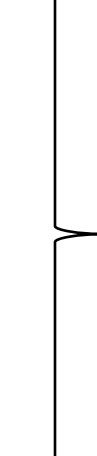
Knowledge and Innovation Communities

European Institute of Innovation & Technology

<http://eit.europa.eu/kics/>

separate legal entities which focus on areas of high societal need integrating the **Knowledge Triangle** (higher education, research and business sectors)

2010

- **Climate change mitigation and adaptation**
(lead the world towards low-carbon prosperity)
 - **Future ICT**
(Enhance quality of life through ICT)
 - **Sustainable energy**
(reduced cost, CO2 impact, risk)
- 
- Education
(Master, PhD)
 - Business support
 - Innovation projects

2010-2012 Budget: **€ 167 million** (21.5% of the total EIT budget)



Knowledge and Innovation Communities

2014

- **Healthy living and active ageing**
(improving the quality of life and well-being of citizens of all ages)
- **Food4future**
(sustainable food supply chain, from farm to fork);
- **Raw materials**
(sustainable exploration, extraction, processing, recycling and substitution)

2018

- **Added value manufacturing**
(competitive, sustainable and environmentally-friendly manufacturing processes)
- **Smart secure societies**
(addressing Europe's security gaps through the development and deployment of innovative ICT solutions)
- **Urban mobility**
(delivering a greener, more inclusive, safer and smarter urban mobility system)



European Innovation Partnerships

Innovation Union
A Europe 2020 Initiative

<http://ec.europa.eu/research/innovation-union>

European Innovation Partnerships (EIPs) are a new approach to EU research and innovation. EIPs are challenge-driven, focusing on **societal benefits** and a **rapid modernisation** of the associated sectors and markets.

- Are **means of focusing resources** and political energies on the key political priorities and bringing the benefits of innovation to people more quickly.
- **Will be politically-driven.**
- **Will not receive**, nor attract nor manage **funds** but can **establish** particular **funding needs**

European Innovation
Partnership
**Active & Healthy
Ageing**

European Innovation
Partnership
on Agricultural Sustainability
and Productivity

Proposed European
Innovation Partnership
on **Smart Cities and
Communities**

European Innovation
Partnership
on **Water**

European Innovation
Partnership
Raw Materials



EIP- Active & Healthy Ageing

- Prescription and adherence to treatment
- Personalized health management, starting with a Falls Prevention Initiative
- Prevention and early diagnosis of frailty and functional decline, both physical and cognitive, in older people
- Replicating and tutoring integrated care for chronic diseases, including remote monitoring at regional levels
- Development of interoperable independent living solutions, including guidelines for business models
- Age-friendly buildings, cities & environments

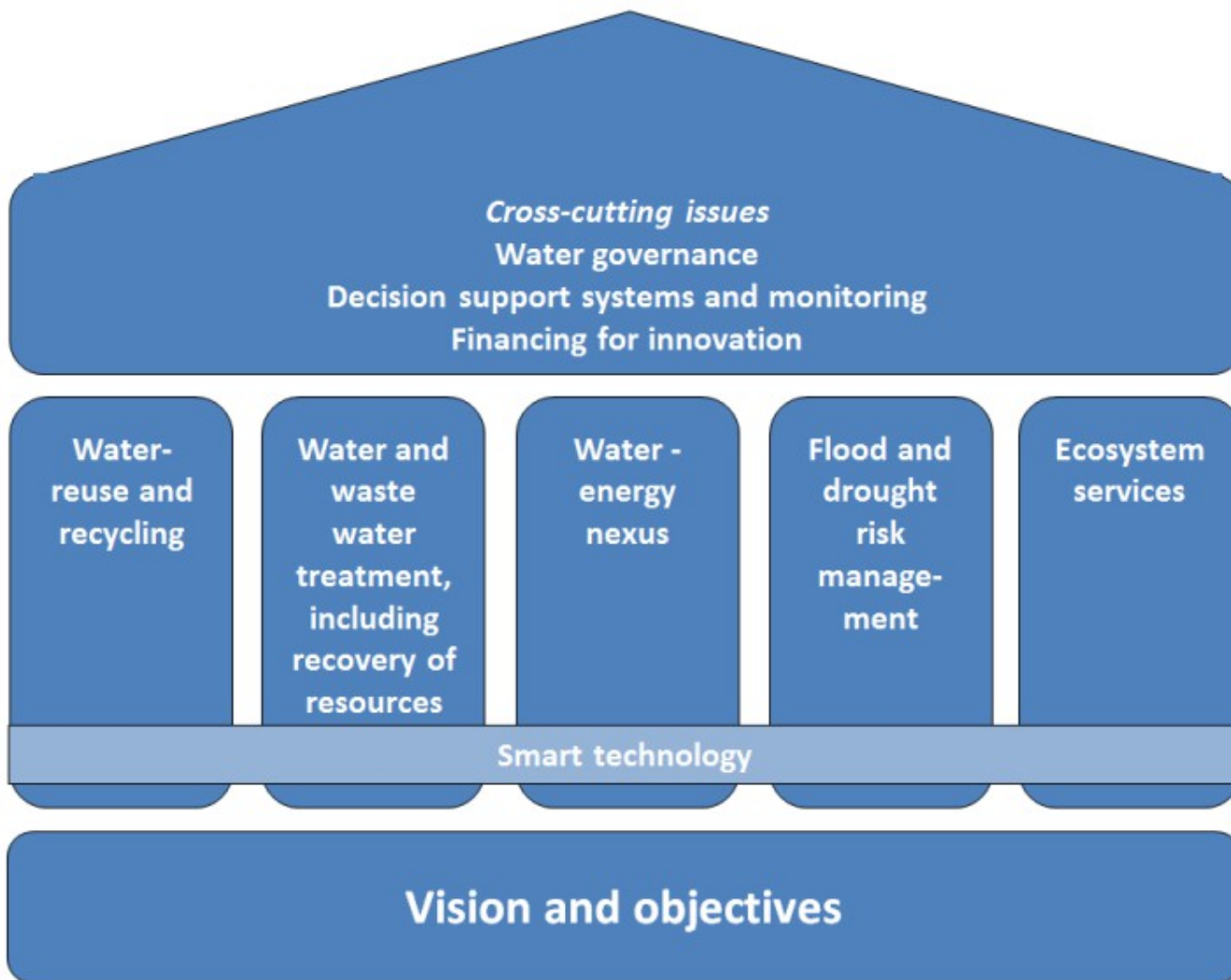
Contribute to **research and methodology on ageing** and adherence (A1.4) frailty and active and healthy ageing (A3.5) and contribute to **knowledge generation** concerning the **mechanisms for ageing** and the **progression of frailty**.



EIP- Water

Call for Expression of Commitments for Action Groups; Deadline: 4 April 2013

Priority Areas of Work





**Technology
focused WPs**

WP1: Sustainable and safe supply

Advanced exploration technologies
Deep extraction and marine raw materials
Advanced pre-processing technologies
More efficient recycling/recovery of mining waste
Reducing hazardous substances

WP2 – Substitution of Scarce and critical raw materials

Focus on economically vital raw materials
Sustainable alternatives, e.g. rare earths
Increasing resource efficient production technology
Building on European Technology Platforms to develop innovative materials and products

**NON
Technology
focused WPs**

WP3 – Regulatory framework, Knowledge and infrastructure base

WP4 – Collection, sorting and recycling

WP5- International Framework



EIP- Agricultural Sustainability and Productivity

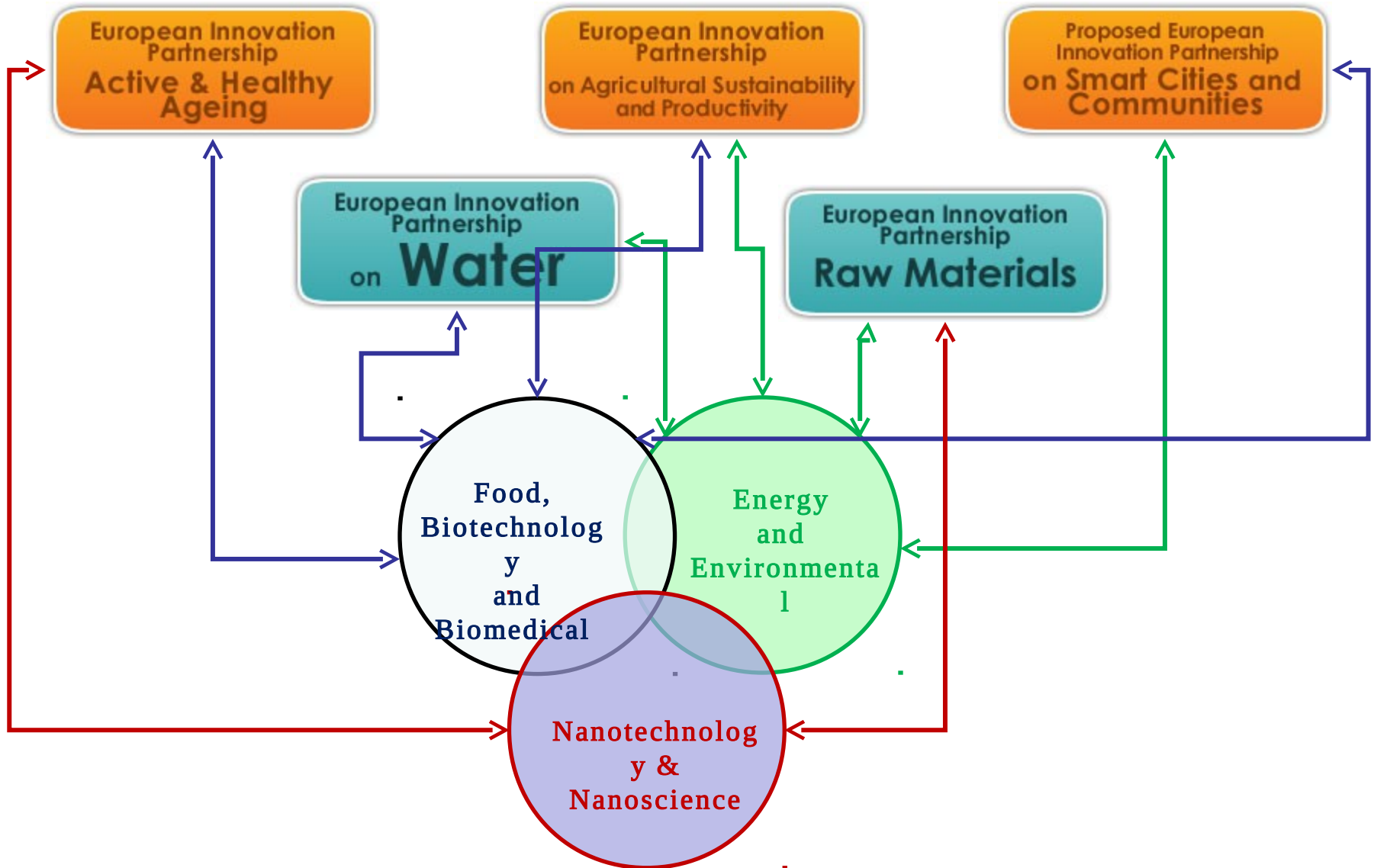
1st Meeting of the High Level Steering Board 21/2/13

- **Promoting productivity and efficiency of the agricultural sector**
(reversing the recent trend of diminishing productivity gains by 2020);
- **The sustainability of agriculture**
(securing soil functionality at a satisfactory level by 2020).

EIP- Smart Cities and Communities

a partnership across the areas of energy (production, distribution and use), transport and ICT are linked to improve services while reducing energy and resource consumption

Smart buildings and neighbourhoods





Round Table Discussion - **Food, Biotechnology and Biomedical**

L. Liggieri CNR-Inst, Italy

M. Moghimi Univ. Copenhagen, Denmark

S. Stoyanov Univ. Wageningen / Unilever R&D The Netherlands