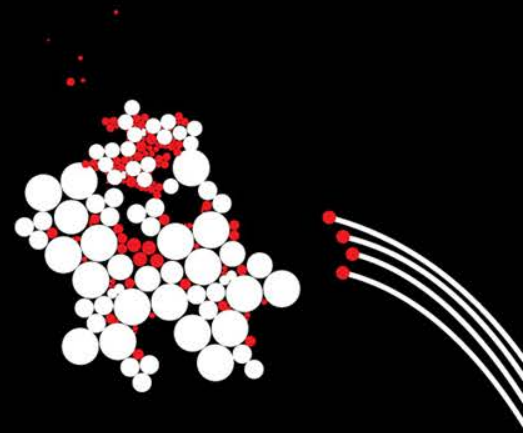
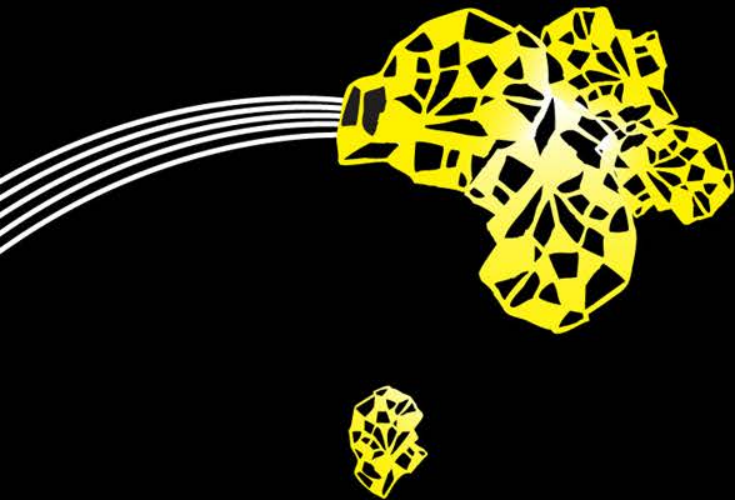


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UPCOMING TOPICS ON ENERGY R&I



FIRST TOPICS AVAILABLE

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EU-OFFICE

Welcome to the intranet page of the EU-Office!

The EU-Office at the University of Twente supports contenders in their grant applications. Depending on your needs, we can provide you with strategic advice on your ideas, support the application process and take away administrative and other burdens. We aim at making your applications more efficient and increasing your chances at success.

This website provides general information on relevant international and European programmes and the services of the EU-Office. We regularly update news and are working to improve the information displayed, so keep the website in check.

Do not hesitate to contact us if you have any specific question.

Kind regards,

Rolf Vermeij Melanie ten Asbroek Telma Esteves

Identified priorities from the Nanofutures Roadmap after Member States consultation

- Lightweight multifunctional materials and sustainable composites
- Nano-Enabled Surfaces for multisectorial applications
- Structured surfaces
- Functional Alloys, Ceramics and Intermetallics
- Functional fluids
- Integration of nano
- Infrastructure for Multiscale Modelling and Testing

Nano-enabled applications specifically targeting H2020 focus areas

- Personalising health and care
- Smart cities technologies
- Competitive low carbon energy
- Waste: a resource to recycle and reuse
- Water innovation: boosting its value for Europe

"Energy-efficient Buildings (EeB)" Public-Private Partnership

Preliminary ideas of areas to be covered by NMP in 2014

2014

- Innovative design tools for refurbishment at building and district level
- Mass manufacturing of prefabricated modules for refurbishment
- Development of new self-inspection techniques and quality check measures for efficient construction processes
- Support for cluster activities of EeB PPP projects – Coordination action

2015

- New tools and methodologies to reduce the gap between predicted and actual energy performances at the level of buildings and blocks of buildings
- Adaptable envelopes integrated in building refurbishment projects
- Innovative techniques to measure the contribution of critical components to energy efficiency (SME-targeted)
- Validation of an integrated approach to retrofitting of residential buildings

SPIRE Public Private Partnership

Preliminary ideas of areas to be covered by NMP in 2014

- Adaptable chemical processes allowing the use of renewables as flexible feedstock for chemical and energy applications
- Improved downstream processing of mixtures in process industries
- Methodologies, tools and indicators for cross-sectorial sustainability assessment of energy and resource efficient solutions in the process industry (Support action)
- Energy and resource management systems for improved efficiency in the process industries (SME-targeted)

'Factories of the Future (FoF)' Public-Private Partnership

Preliminary ideas of areas to be covered by NMP in 2014

- Manufacturing processes for complex structures and geometries with efficient use of material
- Flexible production systems based on integrated tools for rapid reconfiguration of machinery and robots
- Global energy and other resources efficiency in manufacturing enterprises
- Sustainable product life cycle management focused on reuse, remanufacturing and recycling related to advanced materials
- New product functionalities through surface manufacturing processes for mass production
- Novel design approaches and predictive maintenance technologies for increased product life and reliability
- Integrated design and management of production machinery and processes
- New technologies for modular, reconfigurable and reusable consumer products manufacturing and life cycle management (SME targeted)

Photonics PPP
Photonics21 Research and Innovation topics for the Horizon2020 PPP
Work Programme 2014-2015

WORK GROUP No: 2

Industrial Manufacturing and Quality

Research action: Efficient lasers and devices

The demand for high power lasers (cw and short pulsed) with high efficiency is still increasing to provide energy efficient production systems. This leads to the need of high efficient components like brilliant diodes, coatings, non-linear materials for high intensity beams, not only for NIR systems but also for VIS and UV wavelengths.

WORK GROUP No: 4

Emerging Lighting, Electronics and Displays

Innovation action: Large scale demonstration action for deployment of intelligent SSL solutions in European cities

In order to speed up SSL market uptake there is a clear need for market demonstration and validation at a level beyond today's demonstration projects, only covering a limited amount of light points. The major refurbishment of some medium sized European cities would bring compelling evidence of what LED technology can bring to society and would also showcase the commitment to energy efficiency by the public authorities. The vast information gathered in such an action will also act as a springboard to drive energy regulations at the building and district level.

Annex I: Social Sciences and the Humanities in Horizon 2020

3.3 Secure, clean and efficient energy

SSH are clearly anchored in 1 out of the 7 activities under this societal challenge:

- 3.6 “Robust decision making and public engagement” (SP, p. 64)

SSH are also integrated in 3 other activities: in particular 3.1.3 (“Foster European smart cities and communities” SP, p. 60) and to a lesser extent in 3.4 (“A single, smart European electricity grid”, SP, p. 63) and 3.7 (“market uptake of energy innovation, empowering markets and consumers”, SP, p. 64).

PROJECT PLANNING – THE RIGHT CONSORTIUM

SECURE, CLEAN AND EFFICIENT ENERGY

1. Reducing energy consumption and carbon footprint through smart and sustainable usage
2. Low-cost, low-carbon electricity supply
3. Alternative fuels and **mobile energy sources**
4. A single, smart European electricity grid
5. New knowledge and technologies
6. Robust decision making and public engagement
7. Market uptake of energy innovation, empowering markets and consumers
8. Specific implementation aspects

PROJECT PLANNING – THE RIGHT CONSORTIUM

MOBILE ENERGY SOURCE

1. “Mobile”

- Transport, infra-structure, ...


2. “Energy source”

- *Research*
- *Development*

3. *Application context*

- Stakeholders/ End-users:
 - Region, industry, ...

(...)



The right balance
Multidisciplinary
Synergy between partners
International approach