

ECOINNOVATION

Venerdì 6 novembre 2015 ore 10.00-17.30 Sala Ravezzi 1 Hall Sud

RAW MATERIALS ISSUES: A CHALLENGE FOR EUROPE AND THE KIC EIT RAW MATERIALS

Organized by: ENEA e CTS

Europe is taking the challenge to mitigate the supply risks of raw materials since 2008. For the time being, several initiatives are running across EU: the European Innovation Partnership on Raw Materials (2012), the related Strategic Implementation Plan (2013), the Knowledge Innovation Community on Raw Materials (2015). These initiatives complement the funding to Research and Development devoted to the raw materials issues, within the Framework Programme "Horizon 2020". The ultimate goal is decreasing the dependence of European manufacturing industry on foreign supply, reinforcing the competitiveness with the development of new and sustainable technologies, in the areas of the production and refining of minerals, the collection and recycling of end-of-life products, the substitution of critical raw materials in fabrication flowcharts.

The session provides to the audience a general view of the different scenarios, the demand of industry for concrete solutions, the offer of innovation from academia and research centres.

Session Chairs

Roberto Morabito ENEA

Daniilo Bonato High Level Steering Group EIP Raw Materials

Programme

SESSION 1 - New EU initiatives to tackle the RM challenge

10:00-11:40

Chair: Roberto Morabito (ENEA), Daniilo Bonato (High Level Steering Group EIP Raw Materials)

- *M. Pellegrini (Head of Unit DG GROW) – Title tbd*
- *S. Fontana, (EIT Head of Unit Partnerships) – The EIT and its contribution to innovation in Europe.*
- *Ernst Lutz (CEO EIT RawMaterials) – The KIC EIT Raw Materials*
- *D. della Sala (Southern Co-Location Centre EIT RawMaterials) – The startup activities in Southern Europe*

SESSION 2 – Raw Materials supply and the impact on manufacturing – the industry vision

11:40-12:40

- *Mauro Rossi (STMicroelectronics) – Waste recycling in STMicroelectronics: a contribution to resource efficiency*
- *Joseba Perez Bilbatua (Mondragon Corp) – The impact of raw materials in balancing lightweight, - productivity and efficiency in the automotive sector. The case of MONDRAGON Corporation*
- *Silvia Avataneo (CRF Global Materials Laboratories) – Key aspects of raw materials in the automotive sector: applications monitoring and substitution trends*

SESSION 3 - Alternative Raw Materials source: the secondary materials

14:00-15:20

- *Claude Nuyts (Western Co-Location Centre EIT RawMaterials) - Extracting value out of residue stocks*
- *Roberta De Carolis (ENEA) – Network of European Infrastructures on Product Centric Recycling – PCRec*
- **Werter Boninsegni (DISMECO) – DISMECO: an industrial experience in WEEE recycling sector**
- *Stefania Lirer (Univ. Napoli) - EIP Commitment "ROSE": starting activities for implementing new recycling solutions in civil engineering applications*

SESSION 4 - Alternative Raw Materials source: opportunities for substitution

15:20-17:00

- *Daniele Valerini (ENEA) – EXTREME: A European Network for substitution of CRMs used under extreme ù conditions*
- *Luigi Crema (FBK-Trento) – Energy technologies and nanomaterials: upcoming innovation from Graphene*
- *Carlo Ricci (Univ. Cagliari) - Substitution of Critical Raw Materials in electronic and optoelectronics devices: Results and Perspectives*
- *Etienne Bouyer (CEA) - Material substitution: challenge & opportunities for R&D*
- *A. Siriwardana (TECNALIA) – Recycling of CRM from EoL wastes by using ionic liquid technology*

17:15 Discussion and Closure