



# exergy

*Engineering that inspires*

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# What we do?

We develop cost effective and sustainable solutions through cutting-edge technologies and services. Our novel and holistic approach gives response to your business, industry or building demands in two main areas

## GREEN BUILDINGS & CITIES

Sustainable Building Design & Certification

Building Information Modelling (BIM)

Renewable Energy Integration

Resource Efficiency & Optimisation

Bio Chemicals & Fuels Process Development

Demonstration & Scale-up Engineering

Design & Process Integration

Process modelling & Simulation

## SUSTAINABLE PROCESSES



**Raw materials innovation for the circular economy: sustainable processing, reuse, recycling and recovery schemes – b) Recycling of raw materials from end-of-life products**

*SCOPE: Increasing measurably the efficiency and effectiveness (range, yield, quality and selectivity of recovered materials) of the exploitation of complex and heterogeneous secondary raw materials deposits ('urban mines') when compared to the state of the art;*

**PROPOSAL IDEA**

COLOSSAL aims to provide confidence of the economic, environmental and social feasibility of a more responsible and sustainable electronics sector by

- (i) Fostering effective and circular economy design & models for ease of recycle and recovery
- (ii) supporting co-design and co-creation initiatives through continuous feedback between end-users, producers and researchers, via common platform
- (iii) enhancing the techno-economic efficiency of the resources“

**IMPACT**

Improving efficient recovery and re-use of WEEE based products whilst creating an innovative socio-economic circular model for waste prevention and able to be used at the new electronic devices

## Details of type and role of partner(s) sought

- (A) Industrial partners from electronic industry who implement a circular design in their products.
- (B) End Users from the diverse lines of WEEE based products reuse, recycling and recovery.
- (C) Other innovative solutions which could be involved in this specific topic b

## WHY PARTICIPATE

Improving the return on R&D investments under a sustainable and circular economy thinking

### April 2018 Calls

- **LC-SC3-ES-5-2018-2020:** Large-scale demonstrations of innovative grid services through demand response, storage and small-scale (RES) generation
- **LC-SC3-SCC-1:** Smart Cities and Communities
- **LC-SC3-RES-2-2018:** Disruptive innovation in clean energy technologies

### Other 2018 Calls

- **LC-SC3-EE-1-2018-2019-2020:** Decarbonisation of the EU building stock: innovative approaches and affordable solutions changing the market for buildings renovation
- **LC-SC3-RES-1-2019-2018:** Developing Next generation of renewable energy technologies
- **LC-SC3-RES-15-2019:** Increase the competitiveness of the EU PV manufacturing industry
- **LC-SC3-RES-8-2019:** Combining Renewable Technologies for a Renewable District Heating and/or Cooling system
- **SC5-09-2018-2019:** New solutions for the sustainable production of raw materials



# Contact us

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