

SPIRE PPP
-Sustainable Process Industries
through Resource Efficiency-
Why to be a member?

Budapest, Hungary - 26 March 2013 by Dr Frantisek Doktor

Process Industries in the Value Chain

Raw Materials



Process Industry:

Chemical, biochemical, and physical transformation and formulation of raw materials using continuous and batch processes into **Materials with new properties and functionalities**

Discrete Manufacturing:



SPIRE: Ambitions for PPP proposal

“do more / better with less”

- **A reduction in fossil energy intensity of up to 30%** from current levels by 2030 through a combination of, for example, cogeneration-heat-power, process intensification, introduction of novel energy-saving processes, and progressive introduction of alternative (renewable) energy sources within the process cycle.
- By 2030, **up to 20% reduction in non-renewable, primary raw material intensity** versus current levels, by increasing chemical and physical transformation yields and/or using secondary and renewable raw materials. A full life cycle cost analysis is required to consider all effects of using secondary and renewable feedstock (e.g. water usage) and to prove the sustainability advantage.

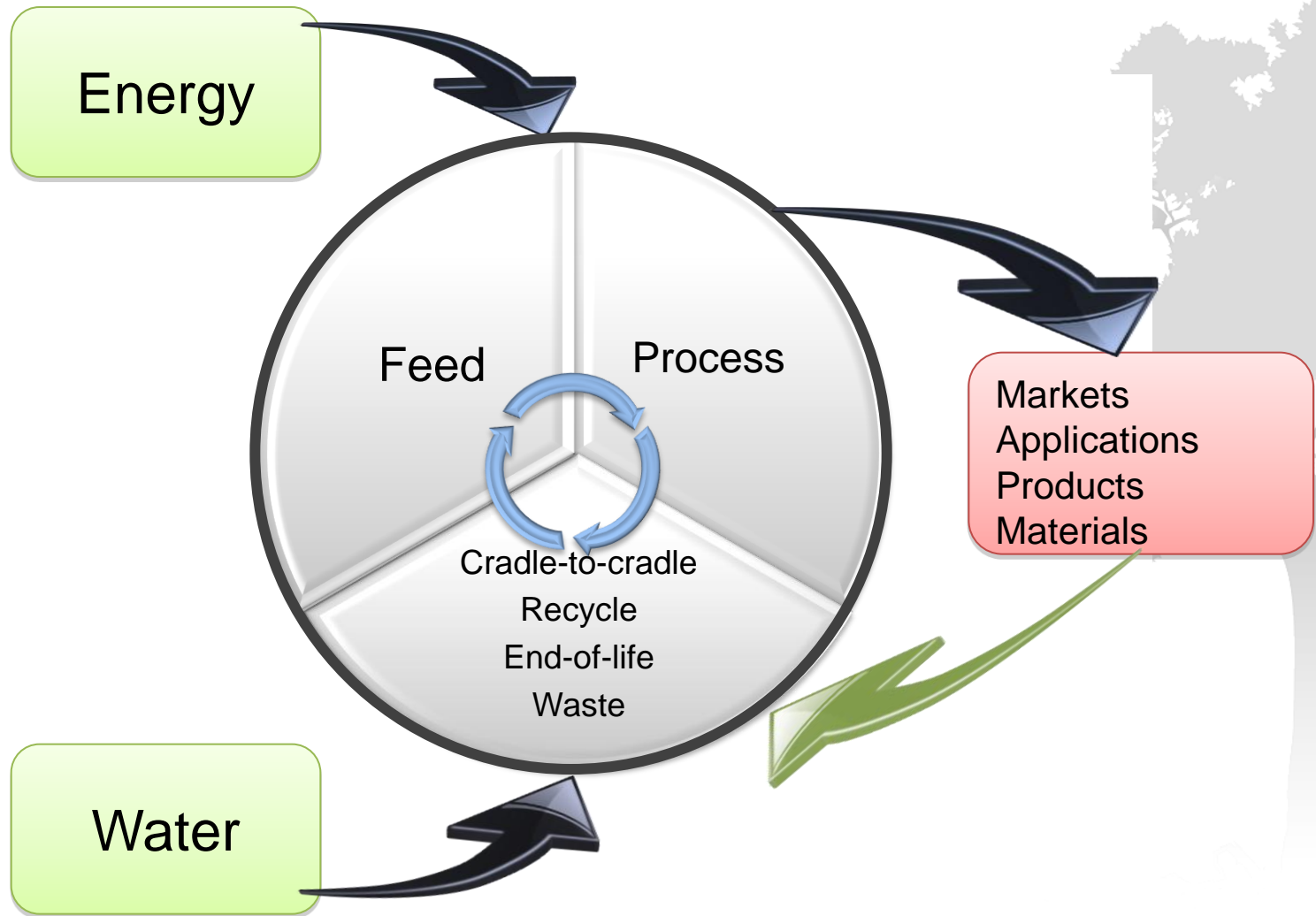


Both these aspirations will make a significant contribution to the political and societal objectives of drastic **efficiency improvement in CO₂-equivalent footprints of up to 40% by 2030**. Potential improvements extend beyond “industry” to all indirectly supplied and dependent economic sectors such as transport, construction, water, electronics etc.

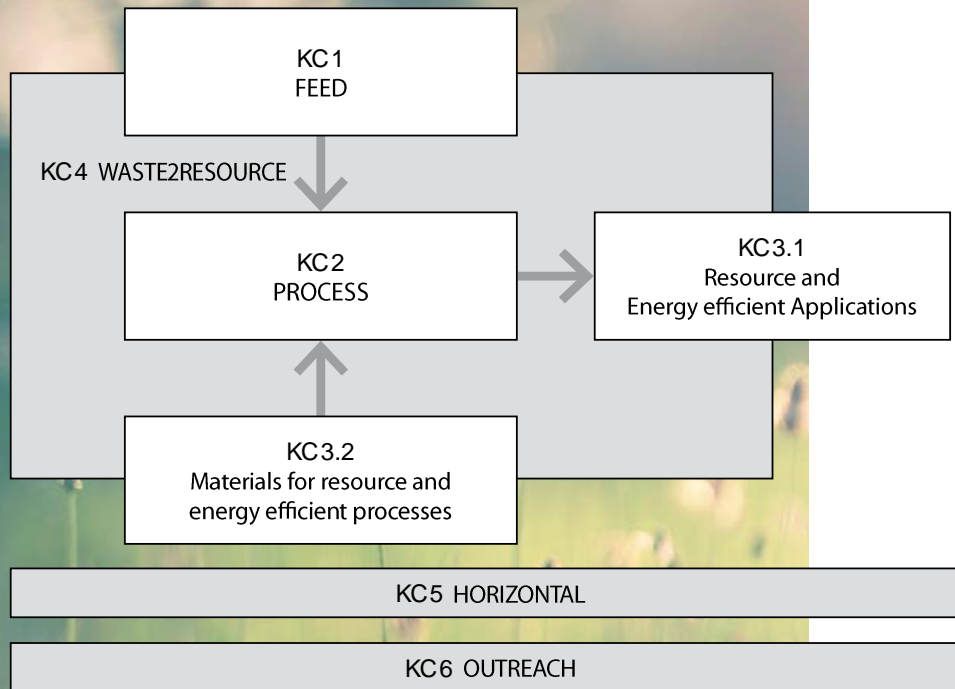
Note: The reference data is based on Eurostat data and definition of ‘current level’ is the period 2008-2011.

SPIRE Roadmap Components

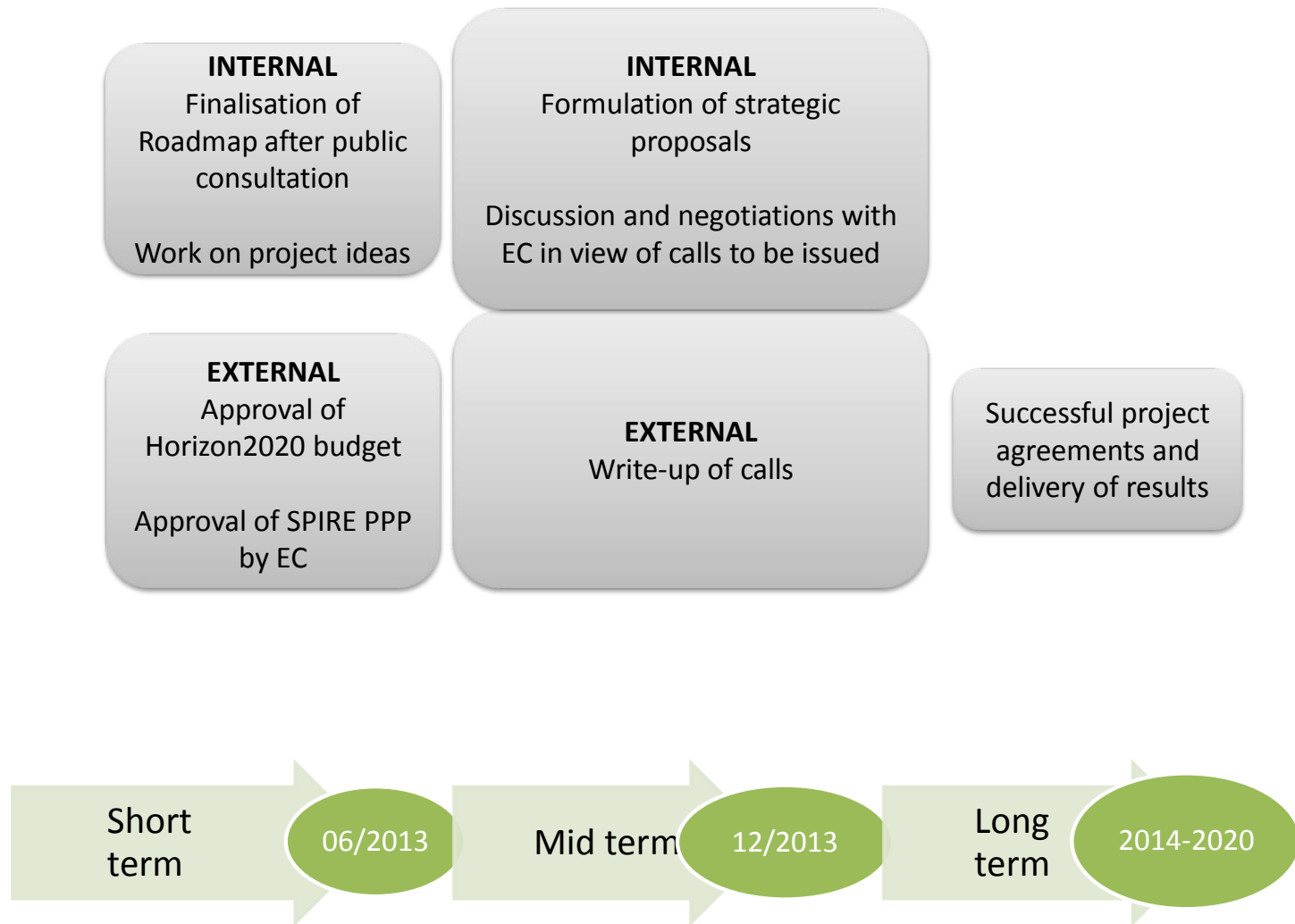
Energy and Resource Efficiency



SPIRE Roadmap integrated Key Components



SPIRE PPP Timeline



A.SPIRE

An association formed to represent the private sector as a partner in the Sustainable Process Industry through Resource and Energy Efficiency (SPIRE) Public-Private Partnership (PPP) to be launched as part of the Horizon2020 framework programme.

- 8 sectors: chemical, steel, engineering, minerals, non-ferrous metals, cement, ceramics and water
- More than 50 industrial and research process industry stakeholders
- More than 450 thousand enterprises.
- Employ over 6.8 million employees,
- Generating more than 1,600 billion € turnover
- The founding basis of the European Economy (20%)
- Struggling with declining global competitiveness

Why to be a member?

- Insider position for shaping the partnership and individual consortia for implementing concrete large scale multiannual projects;
- Opportunities to develop a project proposal and find partners for implementing it;
- Opportunities to join strong consortia for implementing large scale projects – high probability of success in getting access to funding;
- Opportunities for joint pre-competitive and competitive research and development of future innovations;
- Opportunities to address drivers of innovations together with key players in the EU economy;
- Stay in touch with current trends and new business models;
- Using EU funds (Horizon 2020, SFs) for co-financing development of demand and friendly environment for innovative solutions and innovative products.

More info?

www.spire2030.eu

Interested ?

Contact your association (MAVESZ or ZCHFP SR)