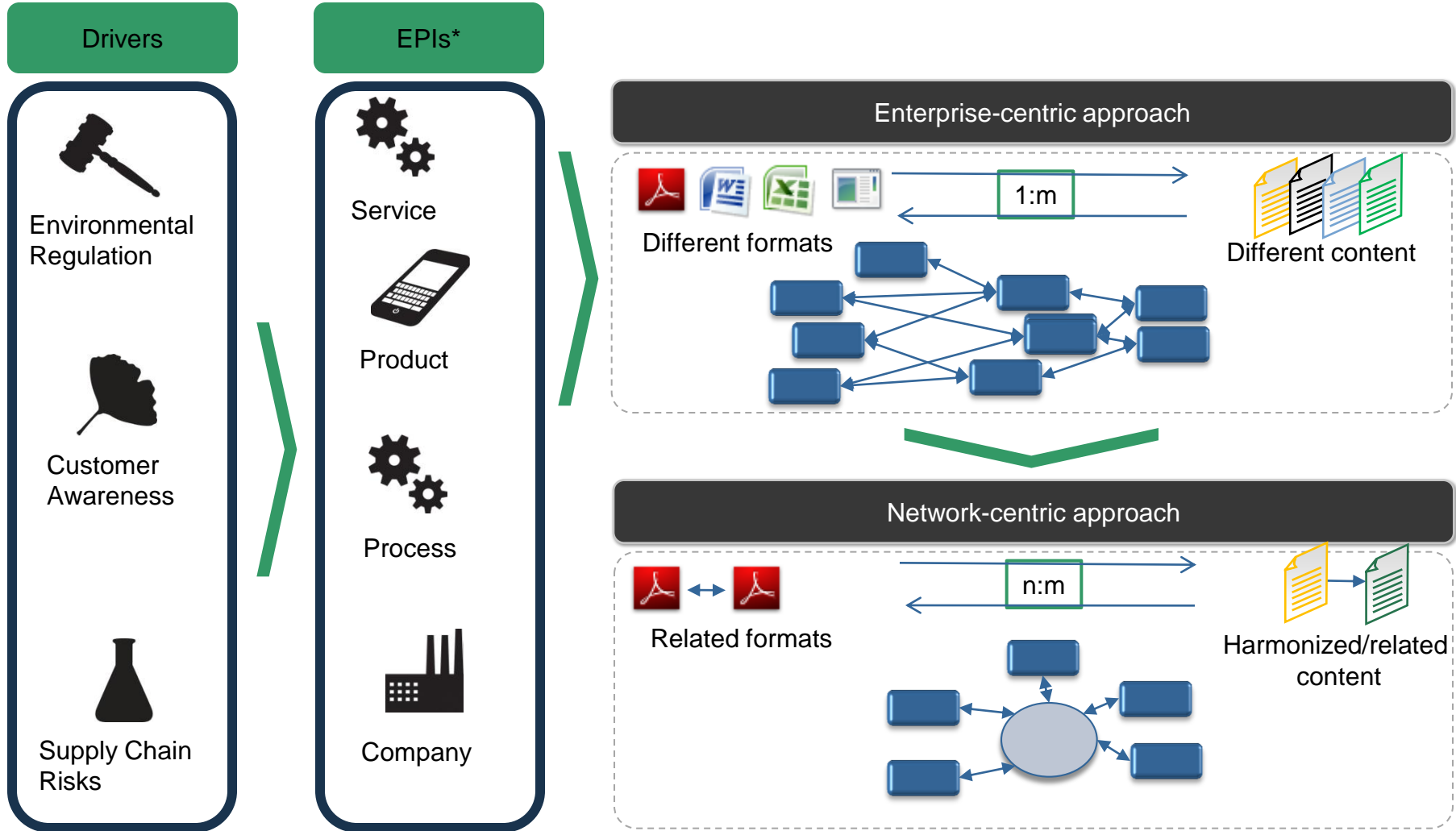


OEPI Overview

January 2012





*Environmental Performance Indicators

Vision

BRINGING SUSTAINABILITY TO THE DAILY BUSINESS

Mission

Provide business users with an **inter-organizational platform & tools** to

- ❑ **provision and share** environmental performance indicators across the chain
- ❑ and **incorporate** them in intra- and inter-organizational processes

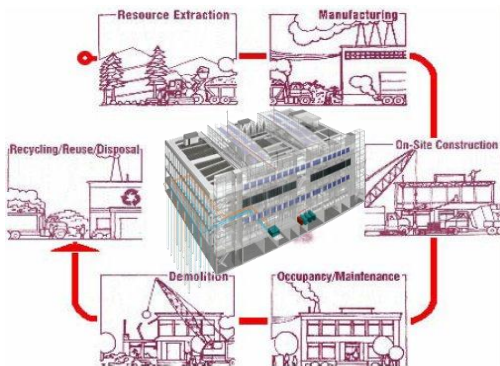
Goal: Reduce the overall environmental impact of a **product, process or service** across its life cycle

- **Share** environmental impact, calculate EPIs
- **Compare** different alternatives & configurations

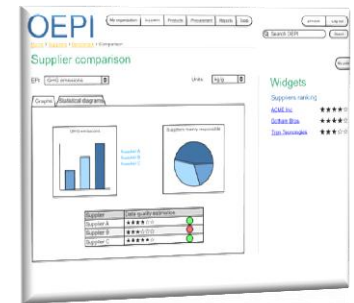
EPI Scope: Cradle-to-grave



Parametrized EPIs of a building



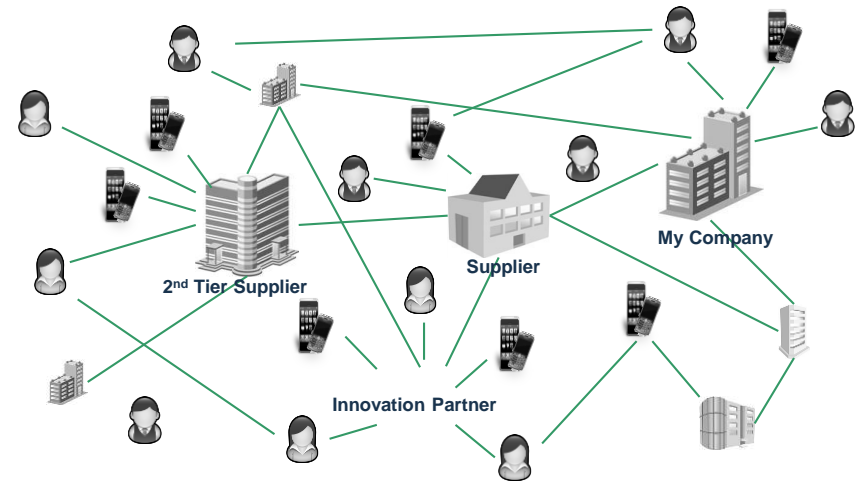
EPIs of components, e.g. elevators



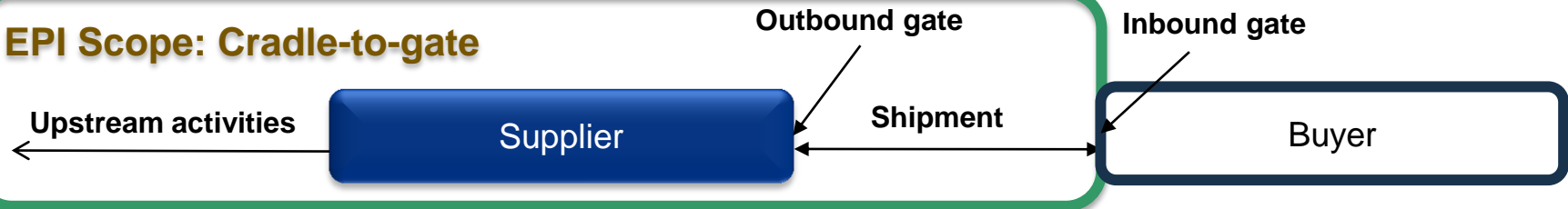
Goal: Reduce the overall environmental impact of the **supply chain** by incorporating EPIs from **alternative suppliers** at purchasing

- Supplier level (State of the art: **High level evaluation**)
- Component level (State of the art: **Compliance in sourcing**)

EPI Scope: Supplier level (scope 3)



EPI Scope: Cradle-to-gate



Goal: Enable an **efficient, reliable, and transparent reporting** to stakeholders within and beyond the organization

- **Regular** communication efforts (e.g. Sustainability report)
- **Ad-hoc** reporting

Typical indicators

- **Energy:** Renewable/ Non Renewable
- **Emissions:** Scope 1/ Scope 2/ Scope 3
- **Waste:** Hazardous/ regular
- **Material:** Renewable/ Non Renewable
- **Water:** Fresh/ waste water



Global Reporting Initiative



The 6TH Environment Action Program of the EC



Corporate Sustainability Assessment by SAM Research



Greenhouse Gas Protocol



Environmental Declarations ISO 14025



Availability



- Industry-wide common source for EPI data
- Decreased communication efforts
- Support and best practices

Comparability



- Convergence towards common baselines, system boundaries and methodologies
- Standardization will be encouraged by providing best practices
- Community-driven de-facto standards

Flexibility



- Speed up data acquisition
- Has to go hand in hand with a change in processes and corporate culture, including executive support.

Costs



- Until today costs were only considered a secondary problem
- Transactional costs to provide the data (once instead of per-request) will decrease
- Standards and community-driven best practices decrease cost of data accumulation

System & Technology



- **Critical requirements are not met**
- **Technology does not scale**
- **Product taxonomy is difficult to define**
- **Ease of use**

Market adoption

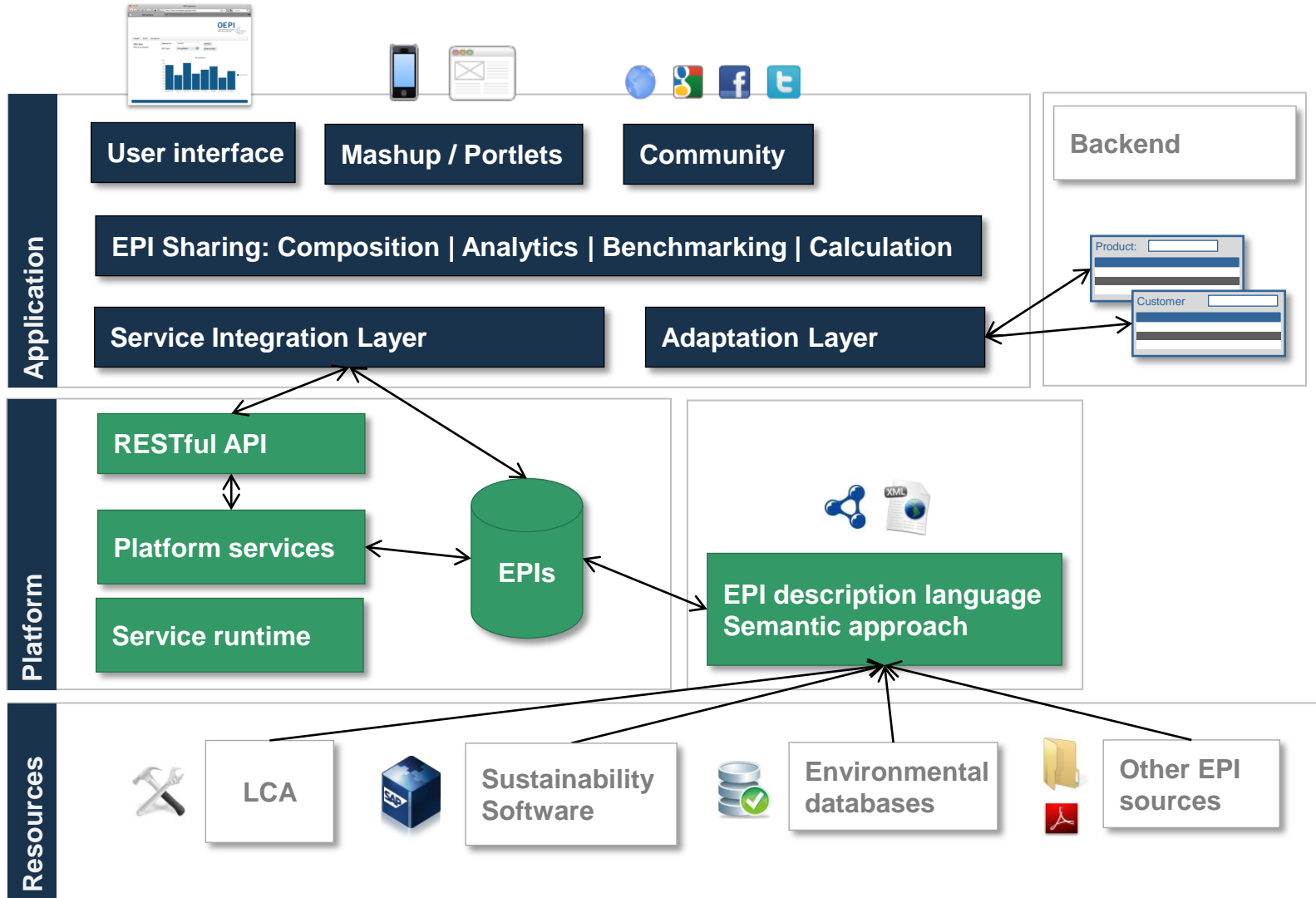


- **Added value not appreciated**
- **No critical mass**
- **Perception of environmental issues**
- **Quicker solution on the market**


Platform data



- **Data Confidentiality**
- **Data availability**
- **Data accuracy**
- **Data actuality**



Short OEPI Demo (upon request!)



The screenshot displays the OEPI web application interface for organization 'AAA'. The interface is organized into several panels:

- Organization:** AAA
- Navigation:** Organization, Products, Targets
- Selected EPIs:** A list of Environmental Performance Indicators (EPIs) with their relevance scores. CO2 has a relevance of 4 stars, while Water has a relevance of 2 stars.
- EPI Editor:** A table for editing EPIs with columns for Name, Category, unit, and Actions. It shows 4 results.
- Unit Process:** A table for editing unit processes with columns for Name and Actions. It shows 1-5 of 8 results.
- Product:** A search bar and a table of products with columns for Name, Activities, Price, CO2, and Water. It shows 4 results.
- Activity:** A table of activities with columns for Name, phase, CO2, and Water. It shows 6 results.
- Project:** A section for project management, including a Project List, a 'Start new Project' form, and a Product Visualizer.
- Product Comparator:** A section for comparing products and EPIs, featuring 'Drop products here' and 'Drop EPIs here' buttons.