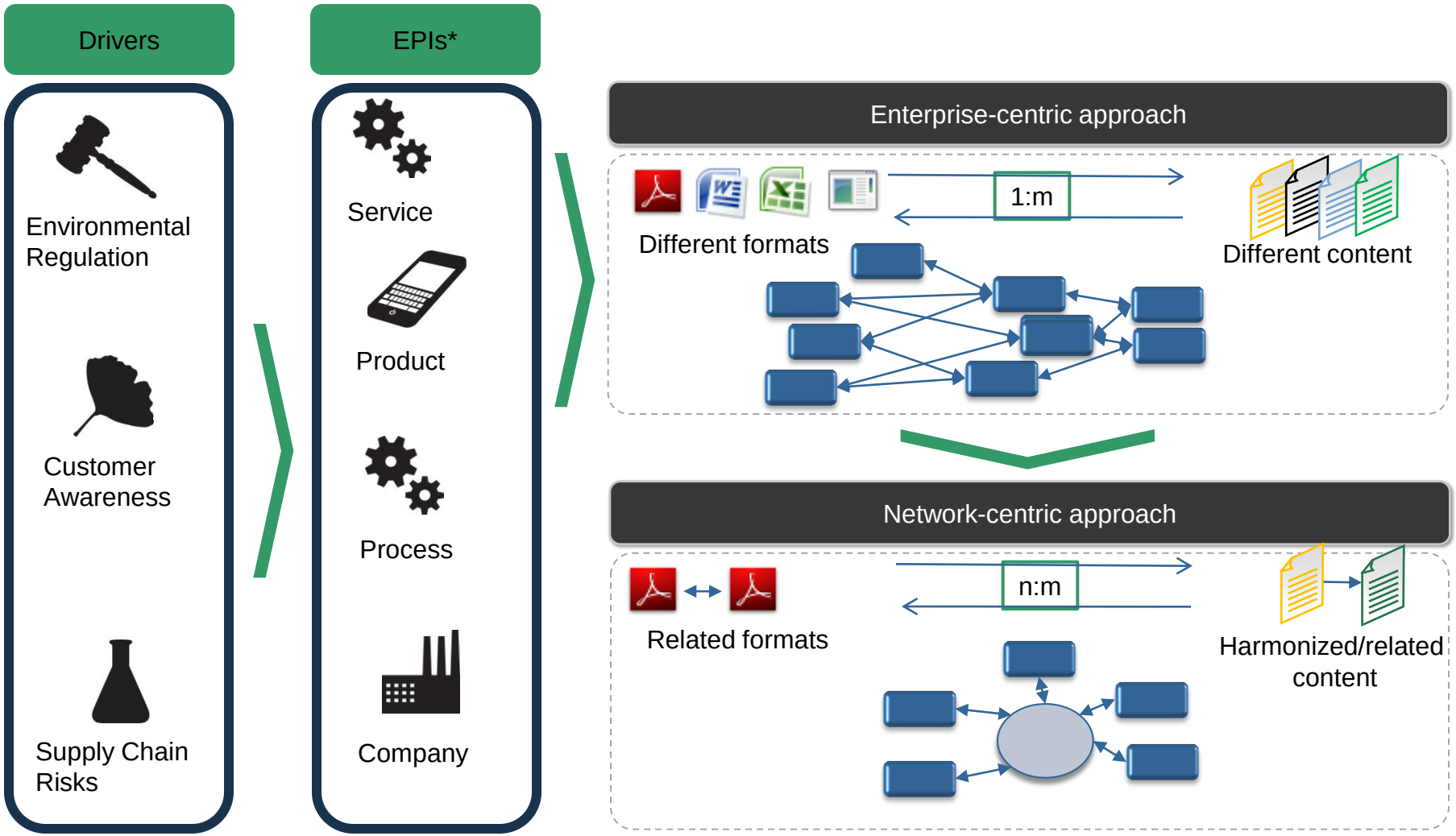
OEPI Overview

January 2012

OEPI
Organisations' Environmental Performance Indicators

Motivation



*Environmental Performance Indicators

OEPI translated the business needs into vision and mission statements

Vision

BRINGING SUSTAINABILITY TO THE DAILY BUSINESS

Mission

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

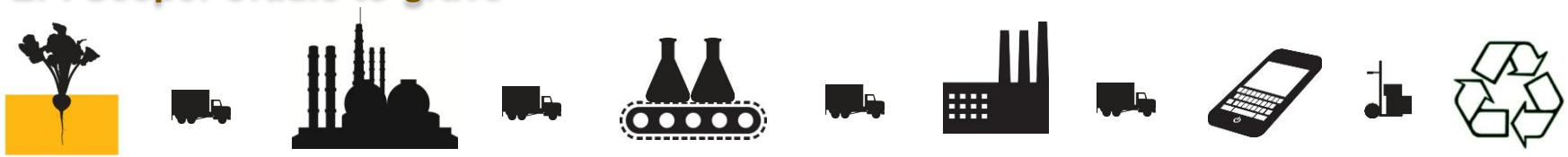
- **provision and share environmental performance indicators across the chain**
- **and incorporate them in intra- and inter-organizational processes**

Design for Environment

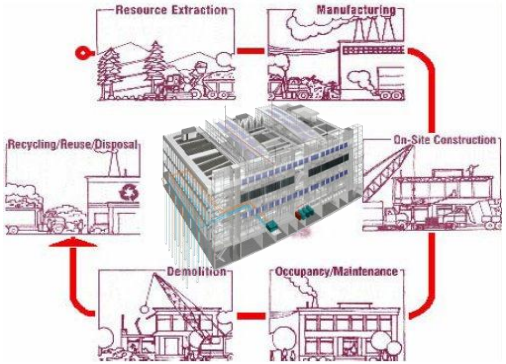
Goal: Reduce the overall environmental impact of a **product, process or service** across its life cycle

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

EPI Scope: Cradle-to-grave



Parametrized EPIs of a building



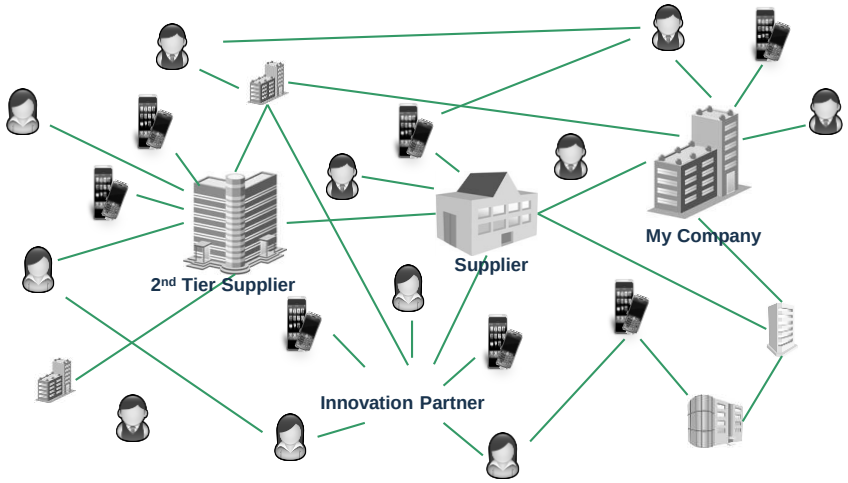
EPIs of components, e.g. elevators

Sourcing & Procurement

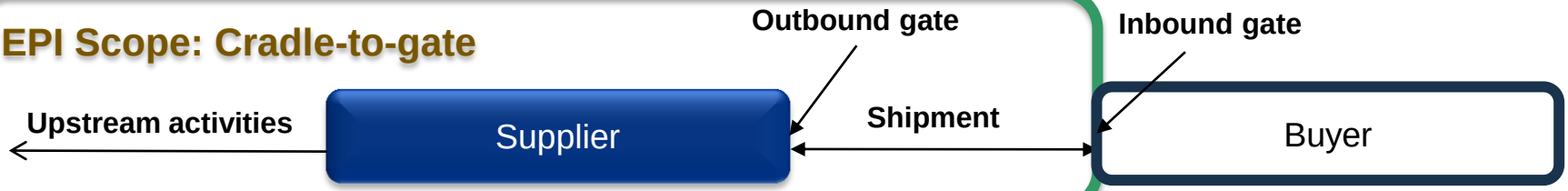
Goal: Reduce the overall environmental impact of the **supply chain** by incorporating EPIs from **alternative suppliers** at purchasing

- 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



Environmental reporting

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

Benefits

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**

Challenges

System & Technology

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

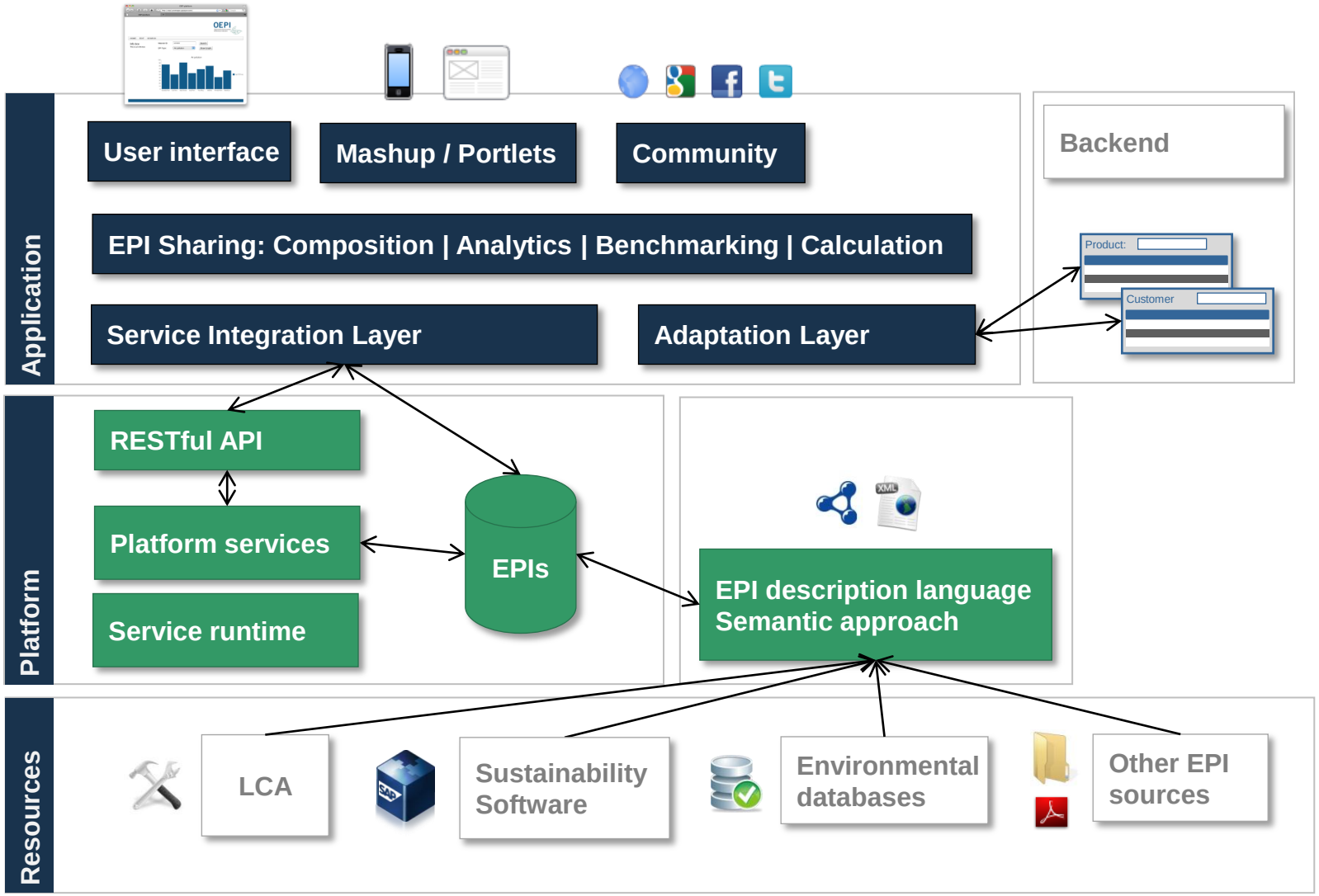
Market adoption

- **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**

OEPI system – Architecture draft



Short OEPI Demo (upon request!)