PLM GREEN ALLIANCE

&

_Green PLM

psc_ TRANSITION TECHNOLOGIES

_ We accompany you in the digitization of your value chain

How does digital transformation make your company more successful with us?

Connected PLM
- Digital Thread
- Collaboration across silos

Green PLM
- Universal data access
- Digital Twin
- Hosting/Maintenance

Schaeffler | Cellcentric | SEG

Cloud-Management
- Software Updates on-the-fly
- Health Check
- Geo Tracking / Fleet Management
- New functions on the fly
- Digital Twin

Oerlikon | ESAB | Sunbelt

IIoT/IoT
IT-OT Connectivity
- Connectivity
- Visibility
- Transparency
- Predicitve skills
- Adaptability

Bayer | Linak | PMI

Augmented Reality
Mixed Reality
- Digital Service-Management
- Handsfree work instructions
- Remote Support
- Automated processes

Vestas | Solaris | Sartorius

_ Environmental pressure for ECO design – EU example

General framework imposing **Ecodesign** requirements on products intended for sale on EU markets

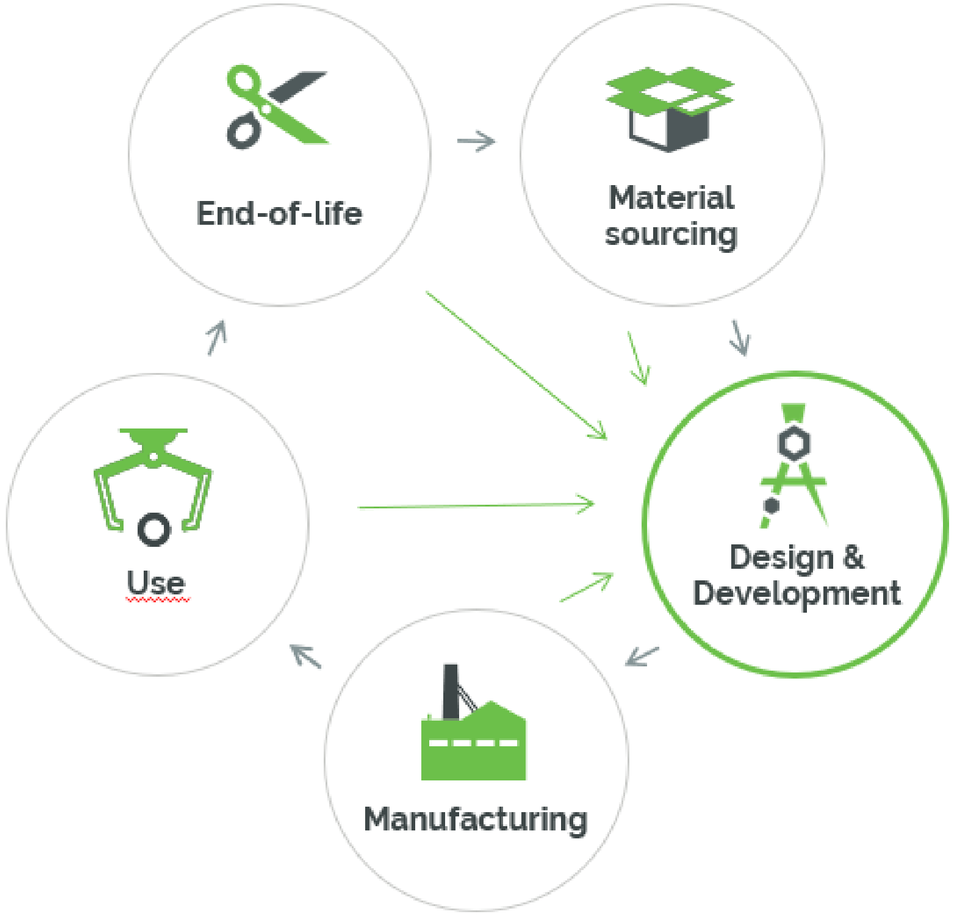
Source: EU

Key aspects:

- Emphasize on **circularity aspects** of products
- Life-cycle **environmental impact of products**, including their carbon and environmental footprints;
- Incorporating **Digital Product Passport**

_ Product design drives environmental impact

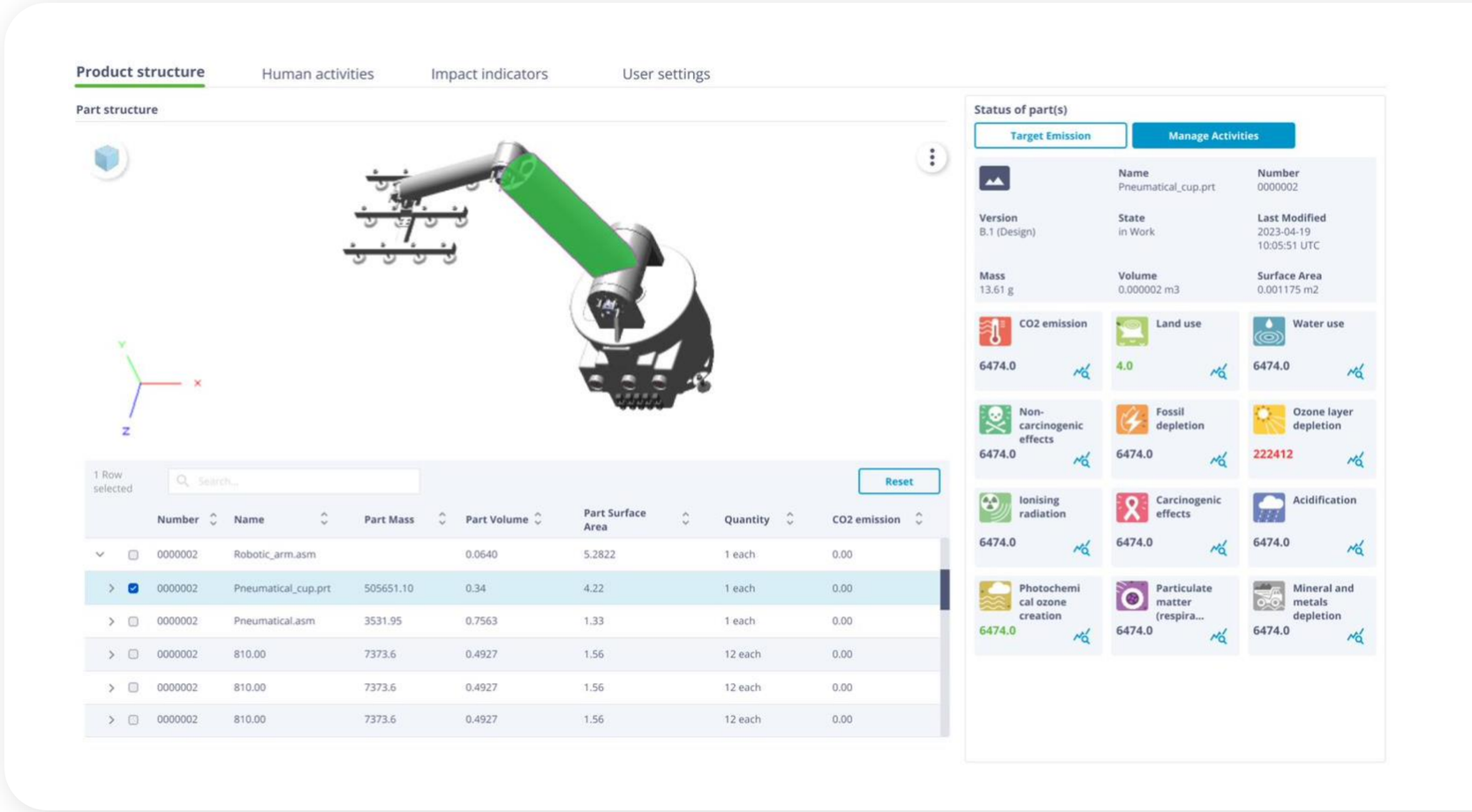
~80% of product's environmental impact is determined at design stage.



_ GreenPLM - environmental footprint toolbox

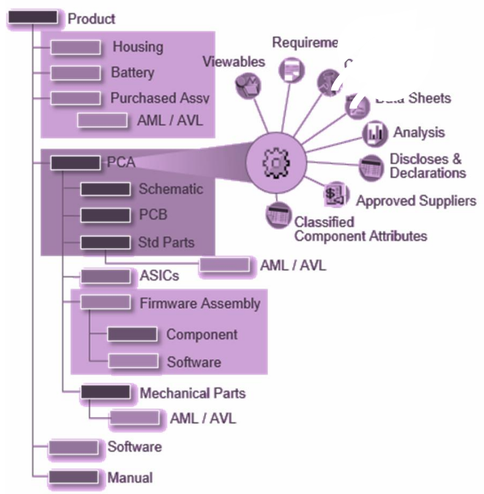
Capabilities

- **Define** environmental targets
- **Calculate** environmental footprint of product design decisions
- **Compare** environmental impact between product versions and variants
- **Collaborate** between product design, manufacturing and environmental departments in one common place
- **Manage** bottom-up carbon footprint calculation and roll-up for entire product



_ GreenPLM - integrated sustainability toolbox

windchill®



Material compliance

ERP

....

Product Engineer

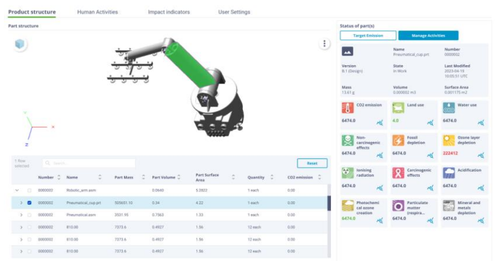
Product Data

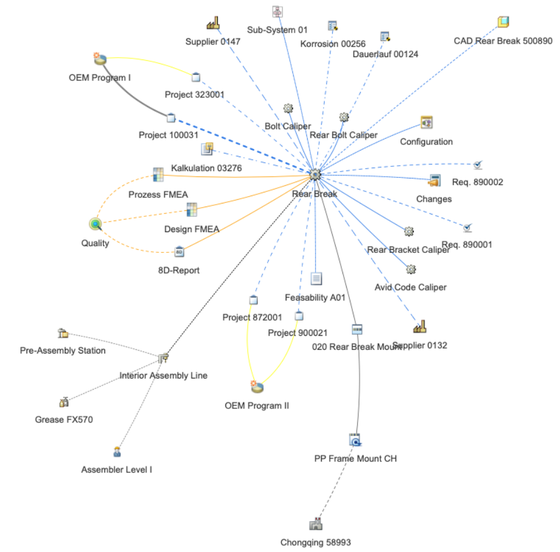
<<traceability>>

Materials Suppliers

<<traceability>>

GreenPLM





Environmental Leader

ISIC Human Activities

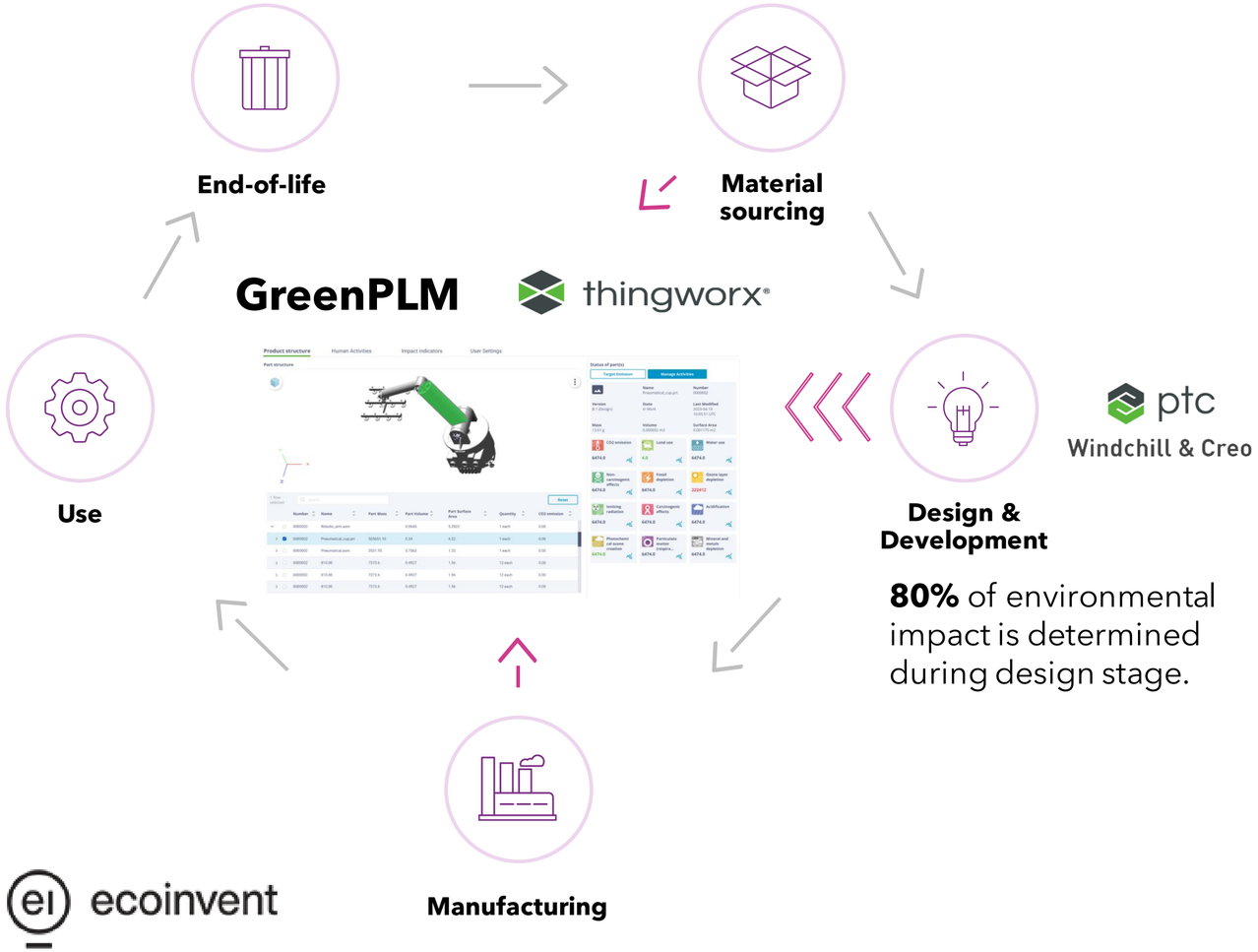
ecoinvent

Digital traceability of **sustainability data** from multiple sources

Product data → Material Type/Mass, Volume, Quantity (BOM)

Environmental processes → Production, Treatment, Construction, Service, Transport

_ GreenPLM – sustainability platform across digital thread



80% of environmental impact is determined during design stage.

Outlook of product engineering decisions on environment.

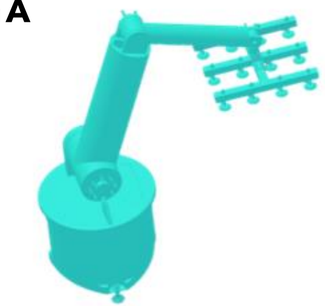
Benefits:

- Use **existing product data** from your **Windchill PDMLink** for environmental footprint calculation
- Connect with other systems using OSLC to get **comprehensive sustainability information**
- **Integrate** with environmental/LCI databases (**ecoInvent**) to calculate footprint for unknown parts
- Build on existing infrastructure and data with **brownfield approach**

_ GreenPLM - environmental footprint comparison

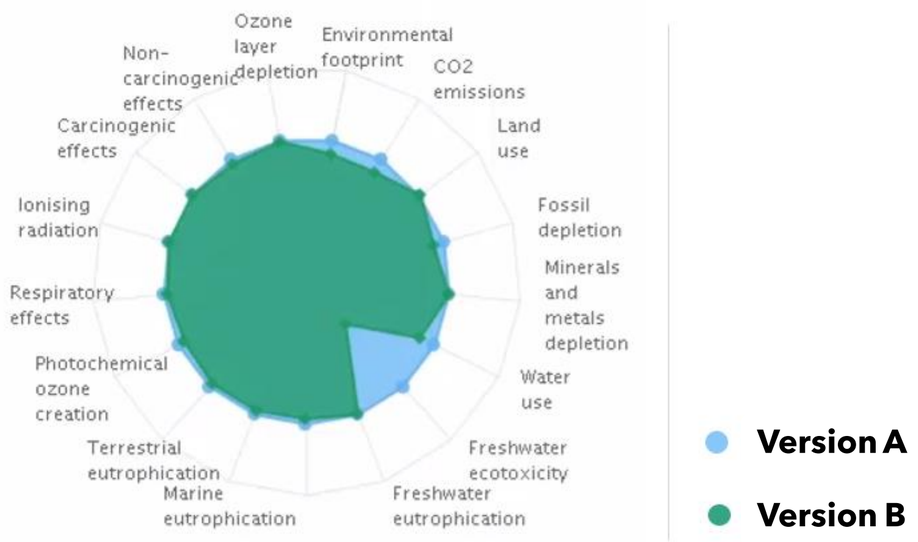
Product engineer understands holistic **environmental effect difference** between product versions.

Version A



Version B

Environmental Footprint Comparison



Do you have questions ?

Rafal Witkowski
Portfolio Director, rafal.witkowski@ttpsc.com, +48 693883567

Erik Rieger
PLM Evangelist & Portfolio, erik.rieger@ttpsc.com, +49 152 213 51 545

https://ttpsc.com/en/solutions/green-plm/

Follow us on LinkedIn

_experience
digital transition!

psc_ TRANSITION TECHNOLOGIES