



Mainstreaming Construction LCA

Based on an open data network

Christian Donath

Presentations



- ★ 14:15 – 14:30 Introduction and overview
- ★ 14:30 – 14:40 Political instruments and LEVEL(s)
Josefina Lindblom (EC DG ENV)
- ★ 14:40 – 14:50 Building LCA Tool Generis
Rafael Horn (Fraunhofer Gesellschaft)
- ★ 14:50 – 15:00 Global open data network
Oliver Kusche (Oliver Kusche Research & Consulting)
- ★ 15:00 – 15:10 EPD Tools for Manufacturers
Nikolaos Vlasopoulos (Holcim)
- ★ 15:10 – 15:40 Q&A
- ★ 15:40 – 15:45 Summary and Closing



Introduction & overview

Christian Donath

Managing Director ECO Platform AISBL

Mission of ECO Platform



Make reliable product data available
for mainstreaming
building & construction LCA





“Green Deal is Europe’s
Man on the Moon Moment”

From goals to instruments



What political instruments are needed
to achieve the defined goals?

@Josefina Lindblom, European Commission DG ENV



Not w/o the Construction Sector



25-40%
OF ALL ENERGY USE



30-40%
OF GREENHOUSE
GAS EMISSIONS



30-40%
OF SOLID WASTE
GENERATION

Not w/o life cycle method



Life Cycle Approach

is essential for achieving goals

but it

must be affordable



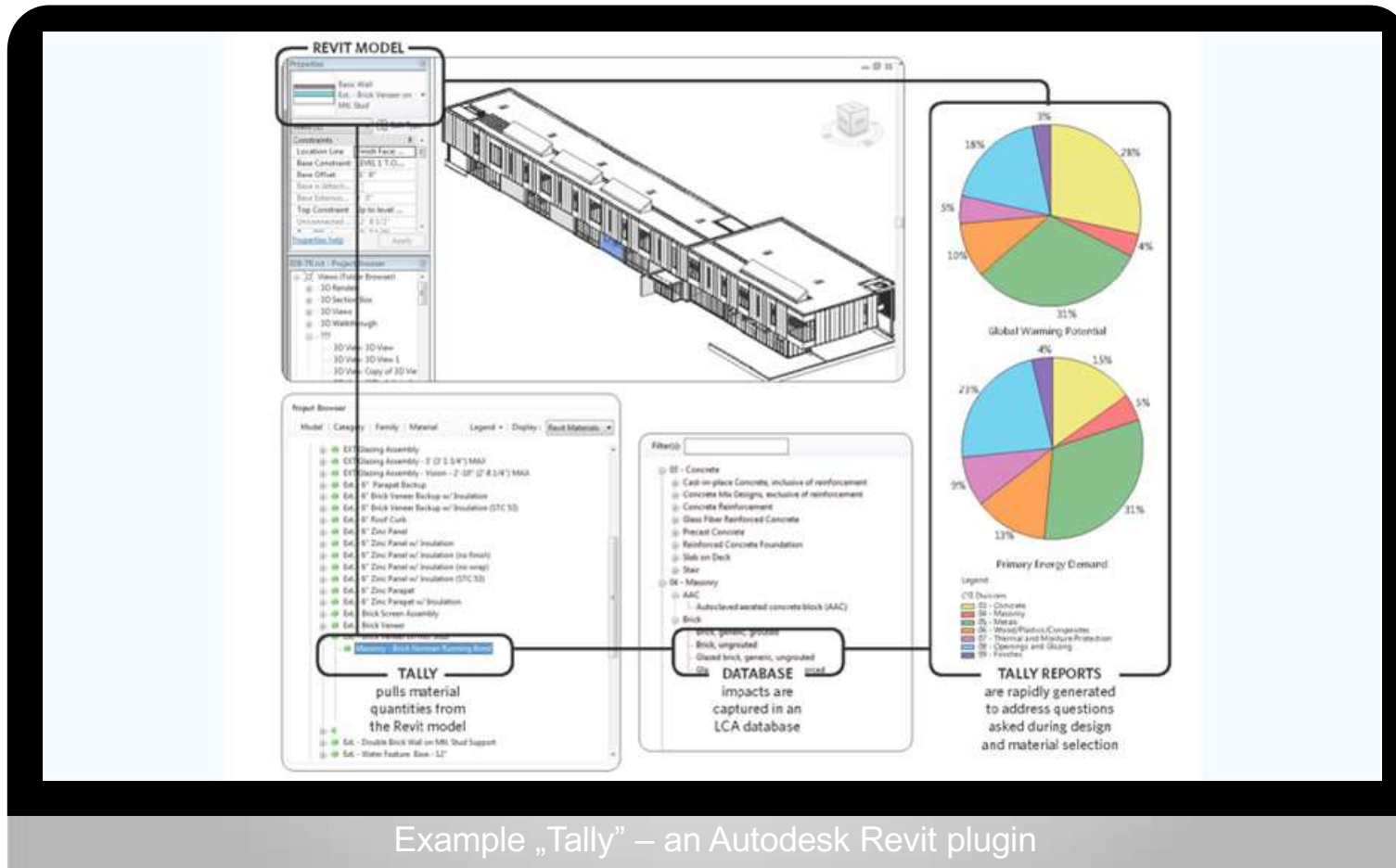
Affordability by...



- ★ **Automation**
let tools do the work: quicker, safer & affordable
- ★ **Digitalization**
digital data exchange & comprehensive tools
- ★ **Harmonized solution**
common data format & data use across applications



Example for smart tools



Example „Tally” – an Autodesk Revit plugin

Mainstreaming Building LCA



What are prerequisites
for the development
of smart tools?

@Rafael Horn, Fraunhofer Gesellschaft IBP



Silos to be overcome



Building
Rating
Scheme

LCA Tool A

Data Source 1

§
National
regulation

LCA Tool B

Data Source 2

Other
Application

LCA Tool C

Data Source 3

Data requirements



Reliable & consistent product data
needed
from a
single access point



Enabling Data Access



Where do tools obtain the data?

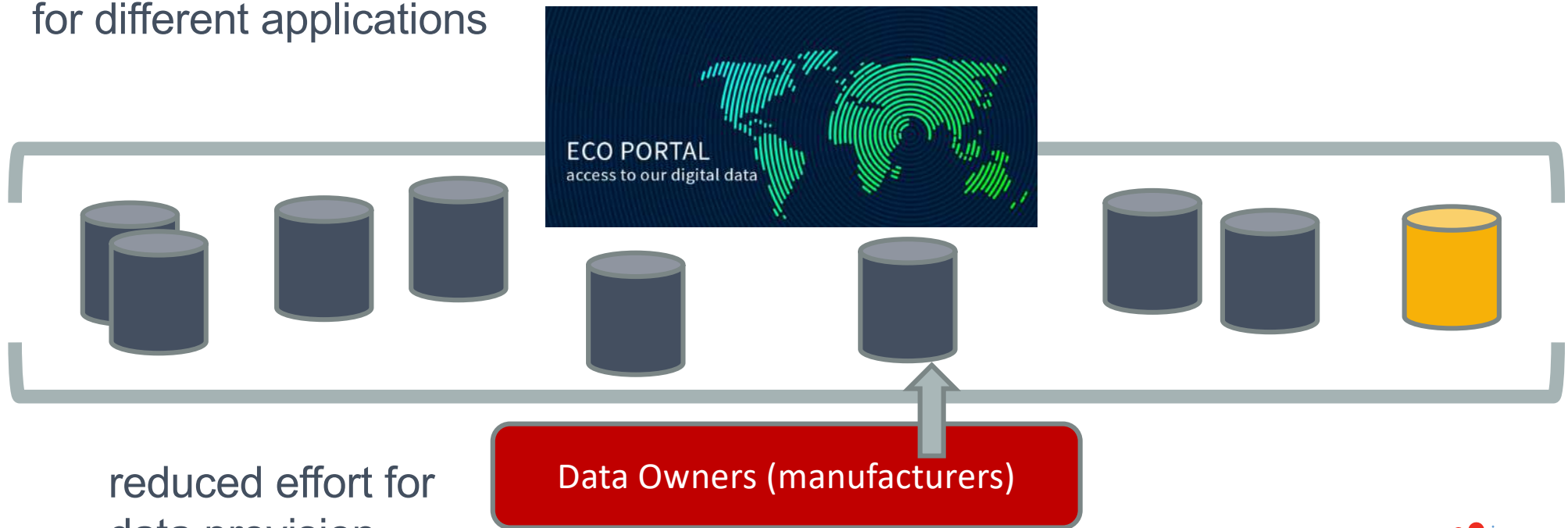
@Oliver Kusche, OK Research & Consulting



Global Open Data Network



Open access to data
for different applications



reduced effort for
data provision



Consistent data approach



EU LCA Database for
all building components



Voluntary
3rd party verified EPD



Generic / Average Data

- close gap
- data for early design stages
- benchmarking

Specific Data

- precise results
- competition on env. performance
- incentives on building level



How to efficiently generate reliable data?

@Nikoloas Vlasopoulos, Holcim

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