

13th UIC Sustainability Conference



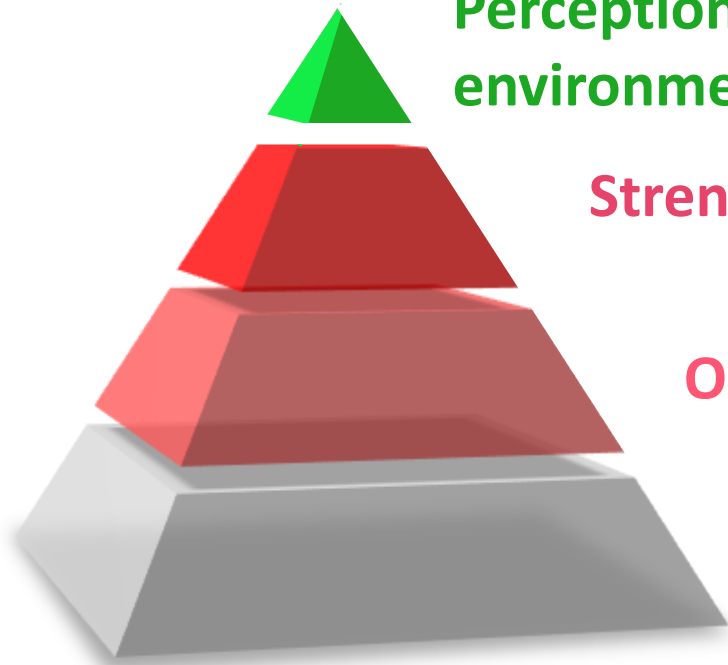
Research project « Sustainable procurement »

*Prok. Mag. Stefan L. Braun
DI Ferdinand J.K. Zinsmeister
ferdinand.zinsmeister@oebb.at*



12, 13, 14 October 2016

Objectives / Meta-objectives



Perception as a leader in the field of environmental responsibility

Strengthening sustainability

Optimizing LifeCycleCosts

Fulfillment of Austrian
Public Procurement Act

Analysis / Preliminary
Sustainable Procurement

BB
INFRA

in co-operation with

BUNDESGESETZBLATT
FÜR DIE REPUBLIK ÖSTERREICH

| | | |
|--|---------------------------------|---------|
| Jahrgang 2014 | Ausgegeben am 18. November 2014 | Teil II |
| 292. Verordnung: Änderung der Schwellenwertverordnung 2012 | | |



Master programme
Rail Technology
and Management
of Railway Systems



Targets



Sustainable procurement by

- Criteria for evaluating sustainability
(Sustainable tender criteria or TCO / LCC considerations)
- Lenses sustainability criteria as part of the design of tenders
- Ecological assessment of construction projects
(Based on total system / components / materials)

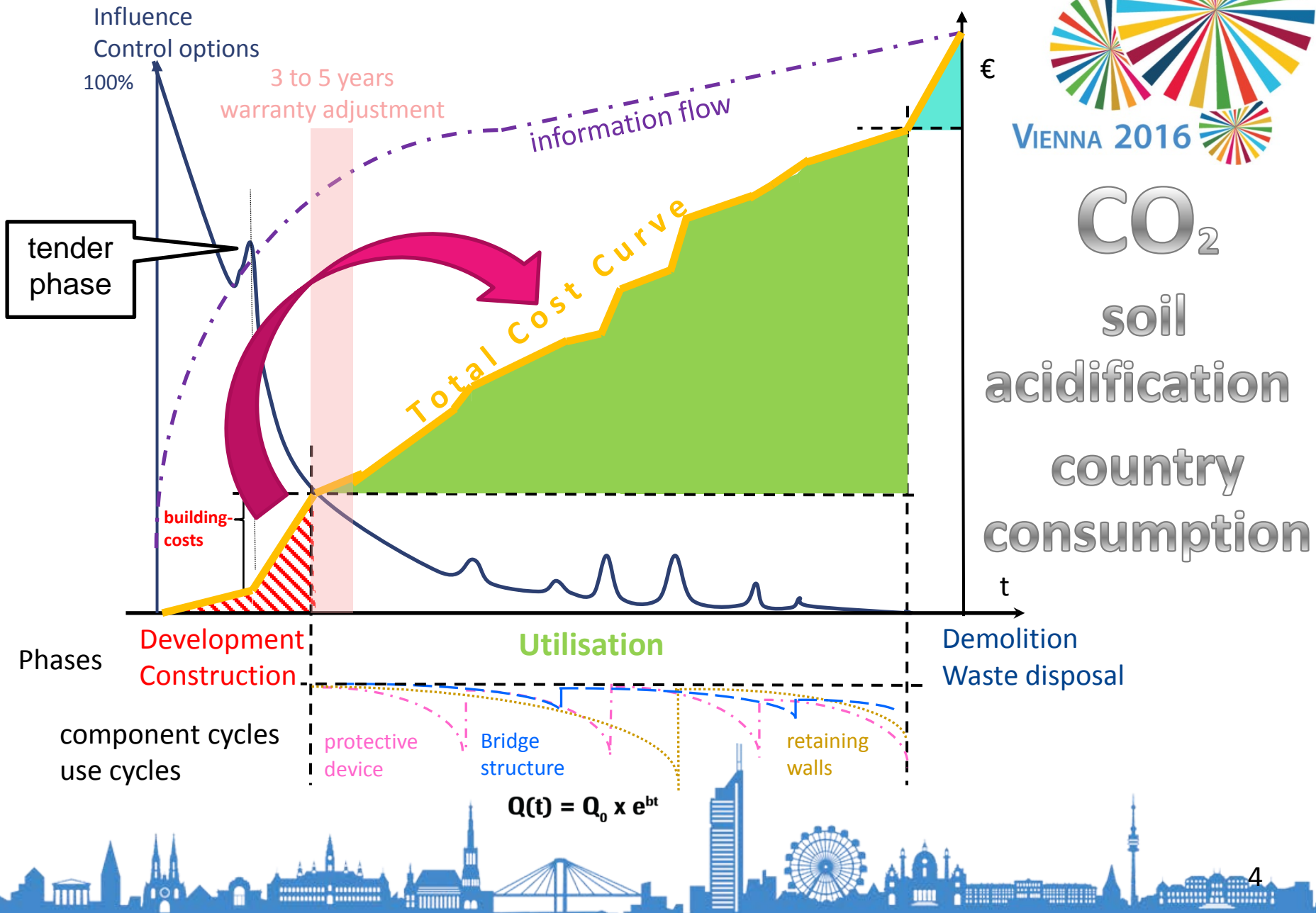
Benefits: perception as a leader in the field of environmental responsibility

Non Targets

- Changing the basic procurement process



Life-cycle costs of a railway line



Projekt team sustainable procurement



Christoph Mauler



Jennifer Stroff



Ferdinand
Zinsmeister



Gerhard Kreuter



Christian Hager



GB PNA
DI Thorsten
Krones



GB SAE
DI MA Christian
Dieplinger



GB BS
DI Christian
Sagmeister



Stab EK
Ing. Ewald
Pulker



GB AM
DDI Karin
Schreiber



FH St. Pölten
DDI Dr. Hirut
Grossberger



FH St. Pölten
FH-Prof. DI Frank
Michelberger,
Stab BES
Mag. Thomas
Schuh



VD Büro
DI Phillip
Kropatschek



Eco-Efficiency

Evaluation criteria



| Eco-Efficiency | Evaluation criteria |
|-----------------------------|---|
| 1. Deployment phase | |
| Energy efficiency | (E1.1) Use of energy-saving construction equipment |
| Water efficiency | (W1.1) Groundwater protection |
| Material efficiency | (M1.1) Proper installation due to well designed planning, (M1.2) employee awareness |
| Carbon intensity | (C1.1) Transport routes, (C1.2) emissions from equipment and machinery |
| Waste intensity | (A1.1) Residual materials |
| 2. Utilization phase | |
| Energy efficiency | (E2.1) Use of energy-saving technology |
| Water efficiency | (W2.1) Groundwater protection |
| Material efficiency | (M2.1) Use of durable materials, (M2.2) maintenance concept |
| Carbon intensity | (C2.1) Emissions from equipment and machinery |
| Waste intensity | (A2.1) Emissions from equipment and machinery |
| 3. Removal phase | |
| Energy efficiency | (E1.1) Use of energy-saving demolition equipment |
| Water efficiency | (W3.1) Groundwater protection |
| Material efficiency | (M3.1) Recycling, (M3.2) modular construction |
| Carbon intensity | (C3.1) Emissions from equipment and machinery |
| Waste intensity | (A3.1) Rating of the residual material |

