

CO² Collaboration Concepts for Co-modality **HORIZONTAL COLLABORATION** www.co3-project.eu

Collaboration Concepts for Co-Modality

From CO² to CO³

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Dirk 't Hooft HIDC

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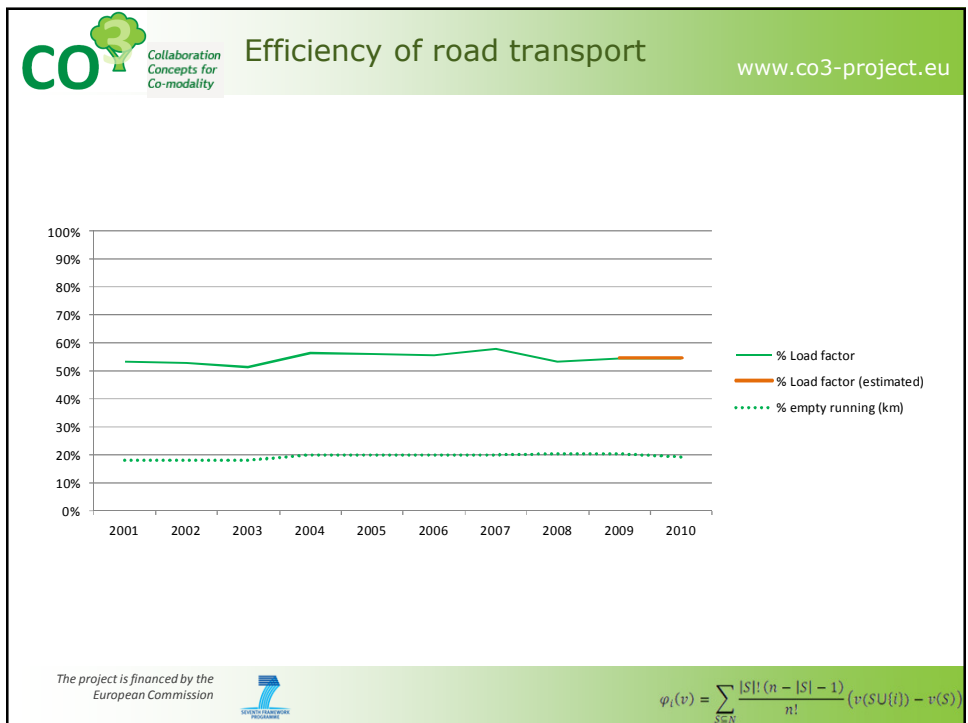
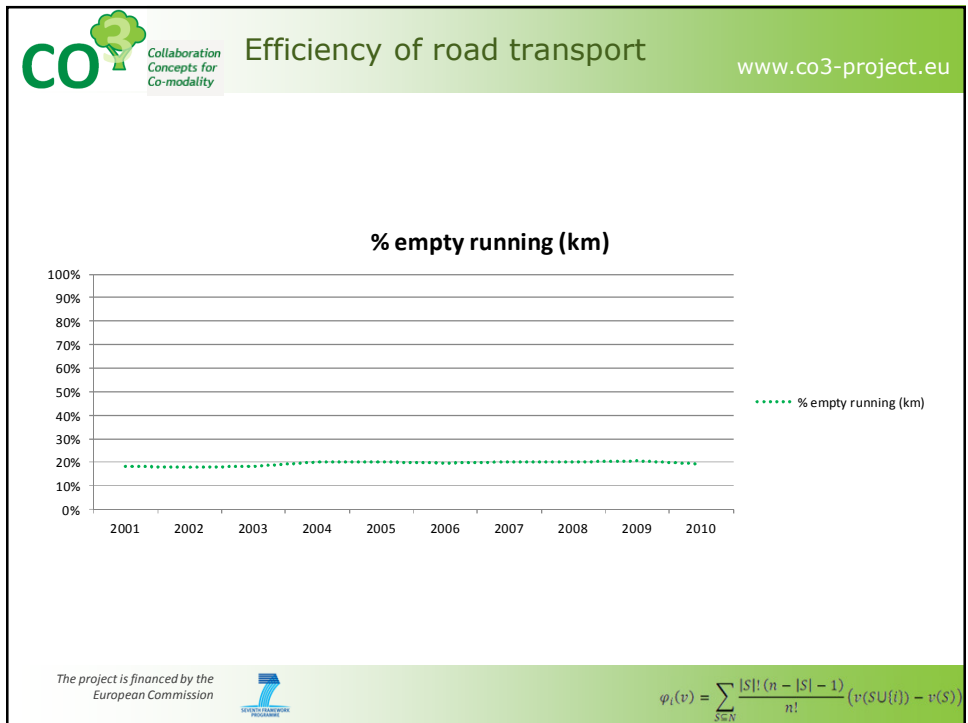
$$\varphi_i(v) = \sum_{S \subseteq N} \frac{|S|!(n - |S| - 1)!}{n!} (v(S \cup \{i\}) - v(S))$$

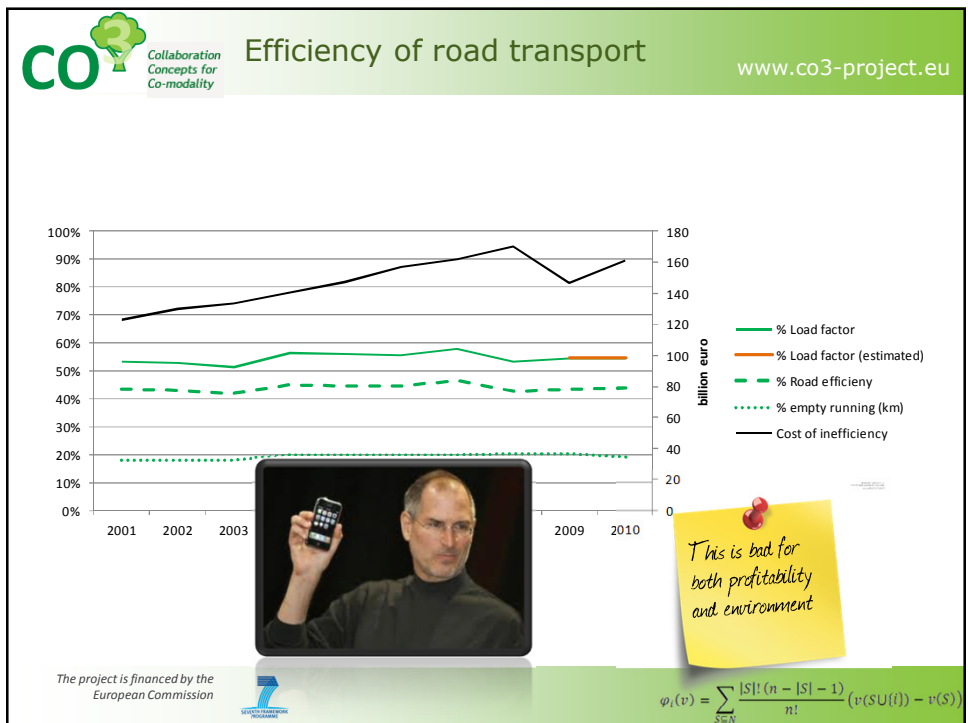
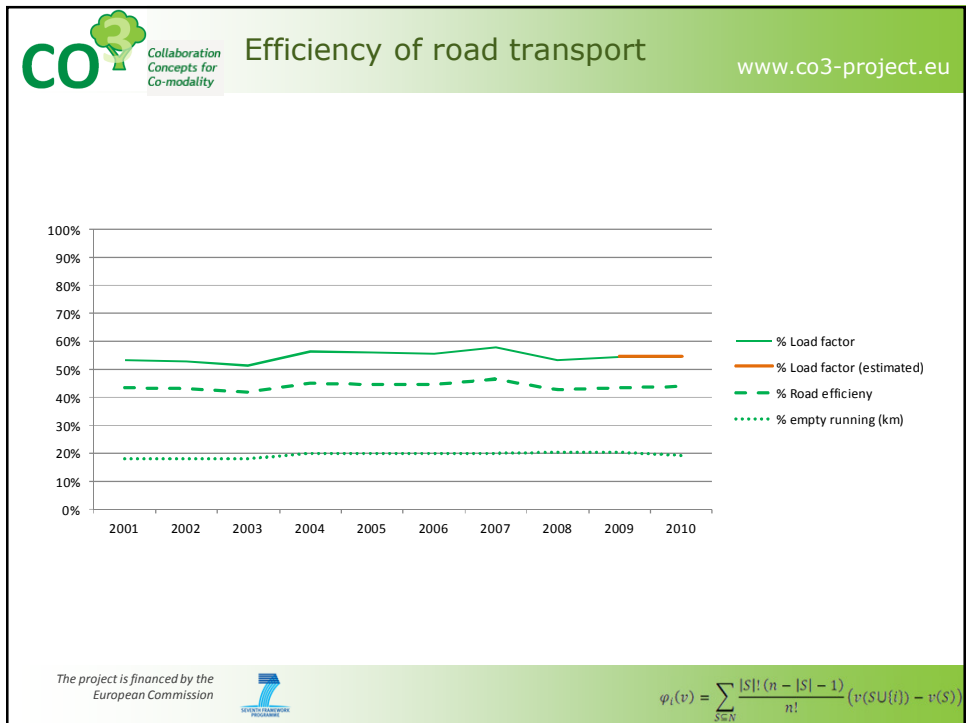
CO² Collaboration Concepts for Co-modality **Modal split in Europe** www.co3-project.eu


Year	Road	Rail	Inland waterways
1991	73	18	9
1993	75	17	8
1995	76	16	8
1997	76	16	8
1999	77	15	8
2001	77	15	8
2003	78	14	8
2005	78	15	8
2007	78	15	8
2009	78	15	8

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EU and CO³ Vision


EU Transport Policy Vision (EC 2011):

- Reduce Europe's dependence on imported oil
- Cut carbon emissions in transport by 60% by 2050
- Modal shift: 30% off road by 2030 – 50 % by 2050
- Multi-modal: European corridor network (low carbon/green)


CO³ Vision:

- Improve **efficiency, effectiveness, sustainability** simultaneously with horizontal collaboration and cross-company flow bundling
- Consolidate and reduce freight flow
- Scale up for intermodal (rail/berge)

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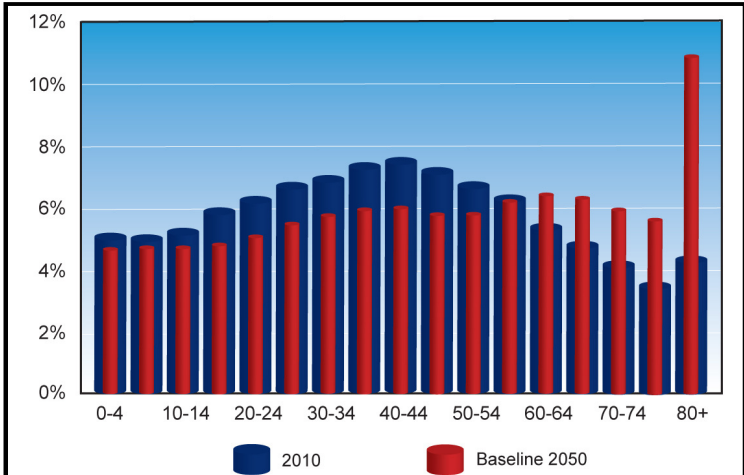
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European population shortage in workforce 2050 ?


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Age Group	2010 (%)	Baseline 2050 (%)
0-4	5.0	5.0
5-9	5.0	5.0
10-14	5.0	5.0
15-19	6.0	5.0
20-24	6.5	5.5
25-29	7.0	6.0
30-34	7.0	6.0
35-39	7.5	6.5
40-44	7.5	6.5
45-49	7.0	6.0
50-54	6.5	6.0
55-59	6.5	6.5
60-64	5.5	6.5
65-69	5.0	6.0
70-74	4.5	5.5
75-79	4.0	5.5
80+	4.5	11.0

Source OTTO Workforce/ SEO Economic Research

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Supply chain development

'Beside technology improvement, only cross-company collaboration can simultaneously improve efficiency, effectiveness and sustainability'

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CO³ Consortium

NDL/HIDC

HERIOT WATT UNIVERSITY

DINALOG
Dutch Institute for Advanced Logistics

D'AAPOLONIA
engineering consulting company

TRI-VIZOR
THE WORLD'S FIRST CROSS SUPPLY CHAIN ORCHESTRATOR®

argus I

pastuconsult

KNEPPELHOUT KORTHALS ADVOCATEN

ZARAGOZA LOGISTICS CENTER

LINDHOLMEN SCIENCE PARK

ITENE

ELUPEG
Business Collaboration. Delivered.

P&G

Cranfield UNIVERSITY

ARMINES

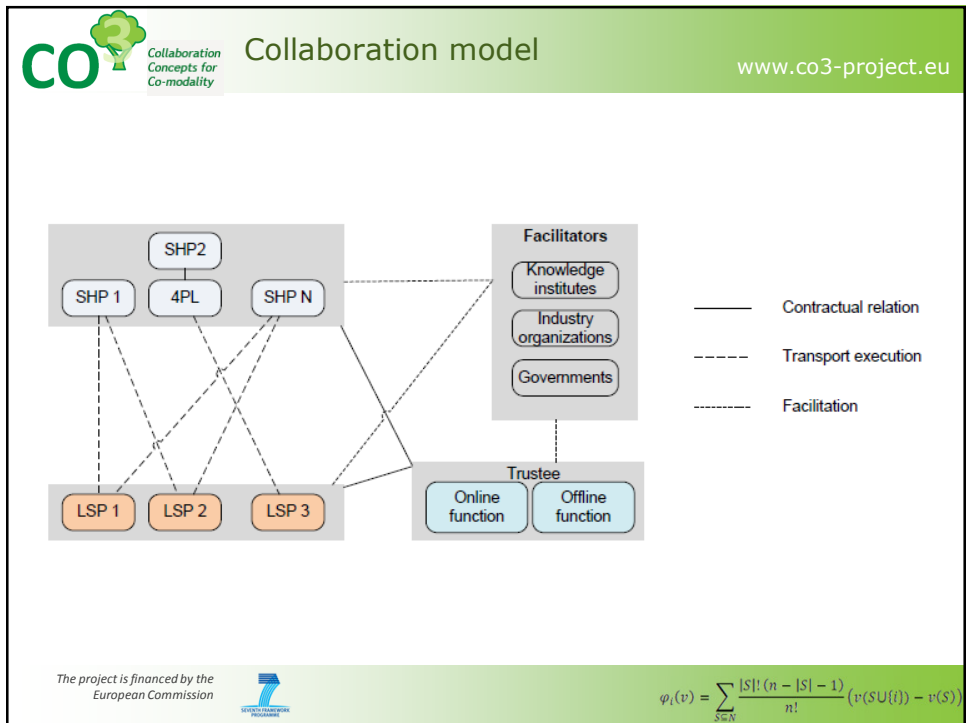
TU/e

Giventis International

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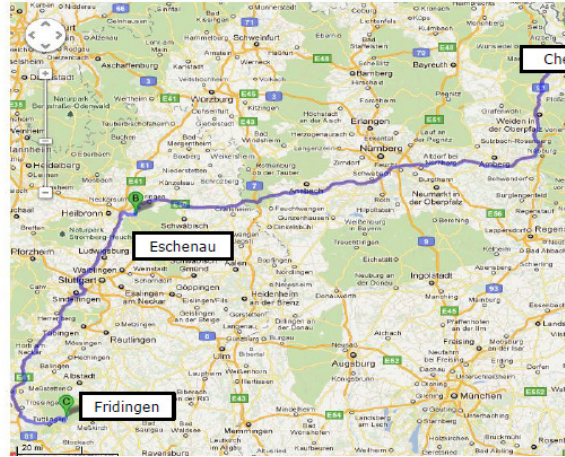




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JSP and Hammerwerk have overlapping flows from Czech Rep. to Germany



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Co-loading test case successful: Net cost reduction -10% ; carbon footprint -30%



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P&G Cube Fill Initiative Mixing light & Heavy Products




**Light goods:
Only 25% of
weight limit**



**Heavy goods:
Only 40% of
volume limit**

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Trustee role

- The trustee is an important player to manage the collaboration
- It has two roles
 - **Online:** harmonious organization of daily collaboration processes
 - **Offline:** Neutral external support to the collaborators
- Examples of online functions:
 - Loads combination
 - Prioritization
 - Synchronization
 - Contact person
 - IT Interfaces
- Examples of offline functions:
 - Create critical mass
 - **Stability and fairness**
 - Legal compliance
 - Entry and exit
 - Conflict resolution
 - Data confidentiality

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Legal framework

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A) Cartel prohibition (Art. 101 EU), but is not prohibiting

- cooperation between non-competitors; -> OK
- cooperation between competing companies that cannot independently carry out the project or activity covered by the cooperation - OK

B) EU Guideline (2011/C 11/01) on Art. 101 EU 'horizontal co-operation agreements'

is not prohibiting Horizontal Collaboration, if using a **trusted party** (eg 'joint purchasing organisation')

⇒ **Horizontal co-operation agreement is not violating EC Competition law !**

⇒ **Recommendation: Use a trustee to avoid anti-trust !**

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Key messages

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- Horizontal collaboration makes transport **efficient and sustainable**
- A structured **development process** for collaboration is needed
- A **trustee** function is required
- Fair **gain sharing** is important
- Good **legal** foundation is important

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More information


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ON OUR WEBSITE
www.co3-project.eu

www.linkedin.com/groups?gid=4082824&trk=hb_side_q

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CO3 MISSION


The mission of CO³ is to encourage a structural breakthrough in the competitiveness and sustainability of European logistics by stimulating horizontal collaboration between European shippers. [More info...](#)

HOW TO PARTICIPATE

Shippers who want to transport their goods across Europe with "fewer and friendlier miles", can make use of the services of the CO³ consortium to identify potential bundling partners and to set up test projects. Get all the information to achieve double digit cost savings and to reduce your carbon-footprint. [More info...](#)


CASE TEST JSP AND HF-CZEECHFORGE

On the morning of November 28th 2011, a Czech truck, fully loaded with consignments of lightweight plastic beads bags and heavy metal automotive brake disks, successfully delivered this bundled payload to its two destinations in Germany. [More info...](#)

Join our group on


Thank you!

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