
Cross-Border Cooperation Boosts Innovation

*Insights from the ETC AT/SK-Projects
DUONET, DUO**STARS & Smart>Net*

Open Days 2012

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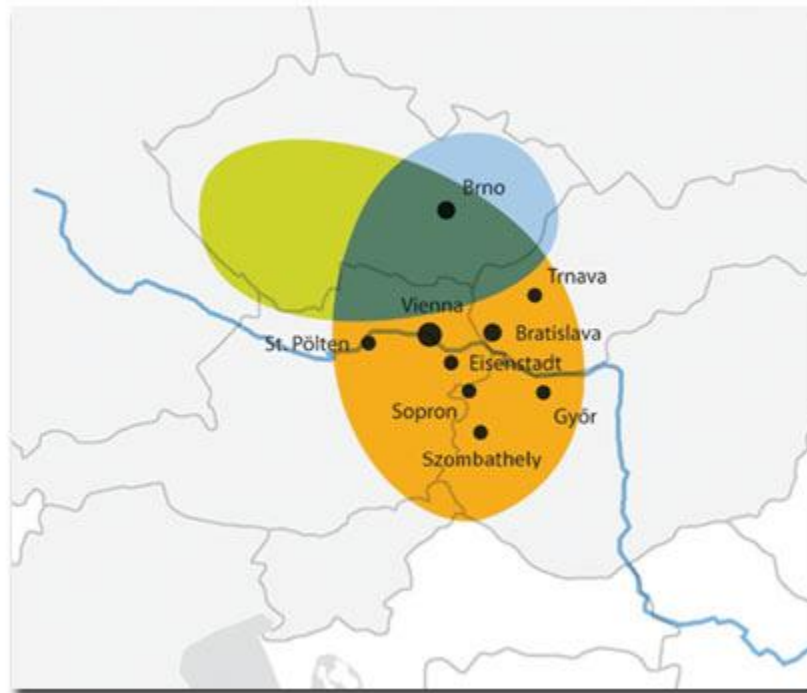


Cross-Border Cooperation

A Threefold Cliff

ETC AT/SK Cooperation Area

Eastern Austria/Western Slovakia



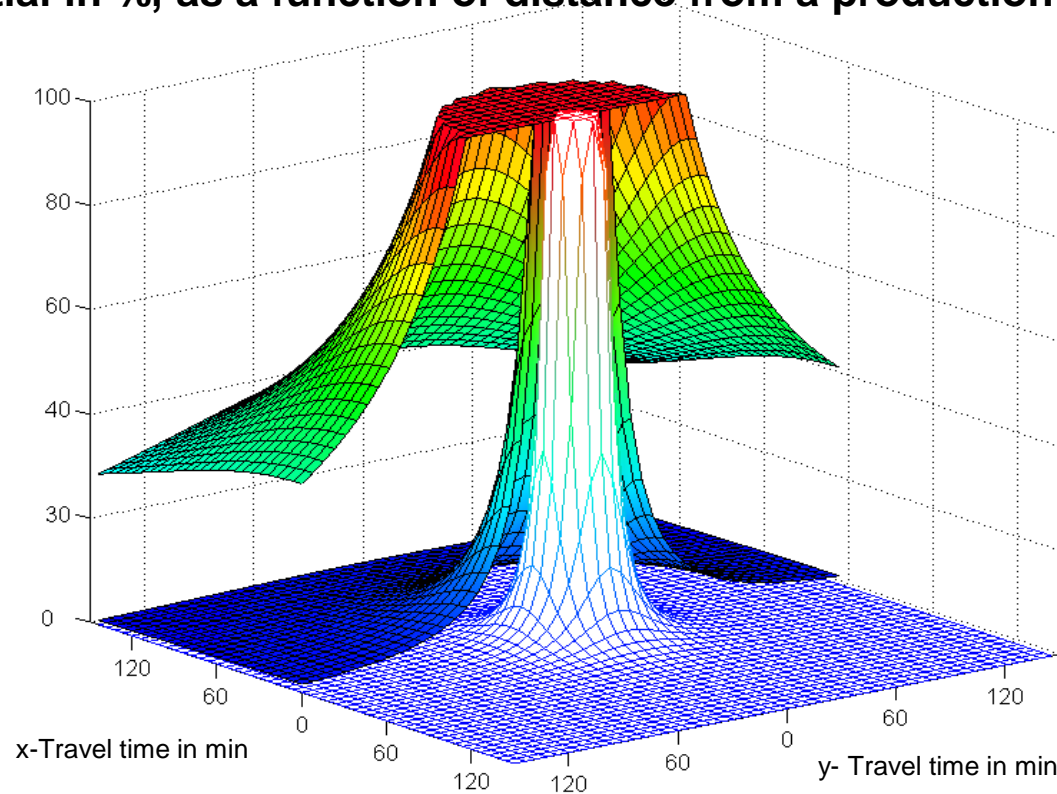
First Cliff

Cross-border Trade Integration

Gravity Model: Supply Radiuses

Hierarchical Dependency

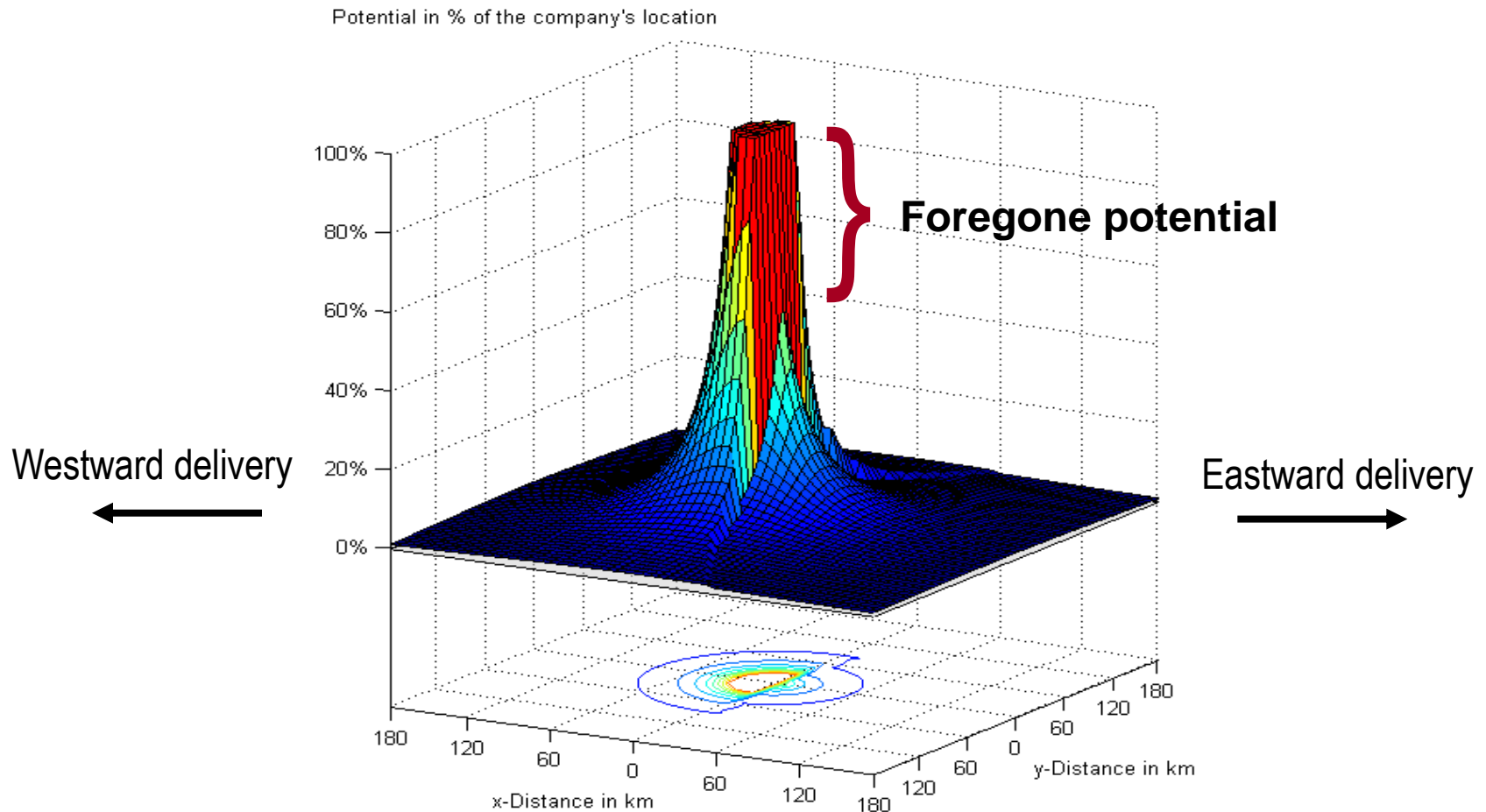
Delivery potential in %, as a function of distance from a production site



Tier 1-, Tier-2, and Tier-3 multi-layer structure from above.

Border Effect on Trade

Lower Austria/West Slovakia



Border Effect on Trade

Conclusions

- Distinguish between **access barriers** (action field 1) and **market structure weaknesses** (action field 2) in economic strategy design
- Action field 1 (**integration target**): **reduce the cone asymmetry** between the West and East European markets
- Action field 2 (**innovation target**): **broaden the base cone**
- Formulate a **dual strategy!**

Border Effect on Trade

Action Field 1: Recommendations

- **Objective:** Improve market access, combined with an accelerated re-orientation of supplier relationships.

- **Action field 1: Access barriers**
 - Expand infrastructure (transnational and interregional)
 - Improve language skills
 - Install a cross-border networking coach (for bilateral match-making; to support individual/pooled electronic procurement)
 - Speed-up/remove border controls
 - Reduce over-regulation (e.g. night driving bans)

Border Effect on Trade

Action Field 2: Recommendations

Objective: Level-up supplier relationships in the value chain **through innovation**

Action field 2: Structural weaknesses of supply

- Pursue tailor-made acquisition strategies of Tier 1 manufacturers as lead companies
- Set up highly focused programmes to support company growth (in terms of value-added growth), both internally and externally.
- Give priority for product innovation over process innovation (e.g. multi-use products, auto/aero)

Second Cliff

Cross-Border R&D Integration

Virtual Lab ➡ SmartLabs (I)

*The DUO**STARS Virtual Lab*

- ***Temporary** virtual research **consortium***
- *Thematically highly focussed: **single task lab***
- *Encompassing small/medium-sized enterprises **and** large companies, university and non-university research institutes*
- ***Real** (non-virtual) joint **development** unit*

Virtual Lab ➡ SmartLabs (II)

*The DUO**STARS Virtual Lab on RTM Technology*

*Participants (European and non-European):
30 participants >12 institutions: Airbus (EADS), Audi,
BMW, c2i, RWTH Aachen, Voith, ...*

*ETC Cost (input): approx. EUR 50K
Additional Turnover (outcome): EUR 5M
Factor: x100!*

Virtual Lab ➡ SmartLabs (III)

Envisaged Themes within the Smart>Net Project

***Transformation within the ETC Project Smart>Net
Pilot Application ➡ Scalable Technology Platform***

Objective: Establish both „maxi labs“ and „mini labs“,
inter alia on

- *RTM technology*
- *Aluminium/magnesium foams*
- *Joining technologies*
- *Diffusion resistant paper*
- *...*

Third Cliff

Cross-Border Training Integration

Best Heads and Best Hands

DUO**STARS Summer Academy

Temporary Activity ➔ Permanent institution

Objective: *Organise a resident academy*

Smart>Net Cross-Border TtT-Scheme

Cooperation nuclei ➔ Cross-border aerospace vocational training programme in aerospace

Objective: *Implement train-the-trainer schemes*

Arrange AT/SK dual education programme

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Export-/Importdynamik

Österreich/Slowakei

