
**Second Meeting of the Railway Working Group**  
 18-19 April 2016 • Bangkok, Thailand  
 Второе заседание Рабочей группы по железнодорожному транспорту  
 18-19 апреля 2016 г. • Бангкок, Таиланд

**Infrastructure Project Evaluation and Prioritization**

Jurgen Sluijter  
Transport Economist ADB

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**Project Prioritization**




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**Evaluation and Prioritisation:**

- Decision-making tool
- Evaluating and comparing projects & -alternatives
- Different levels of detail
- Overview of impact and various effects
- Benefits and limitations; use and abuse
- Transparency on priority setting
- Political responsibility

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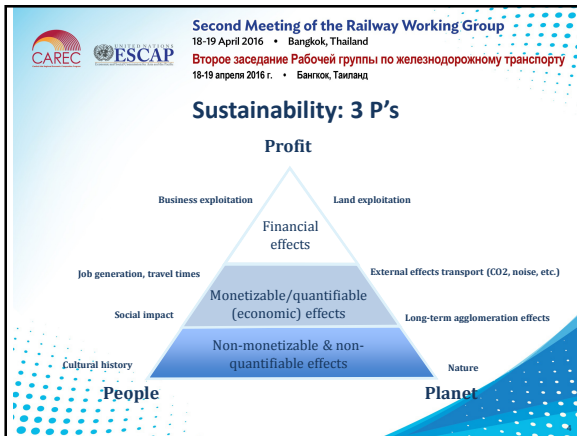
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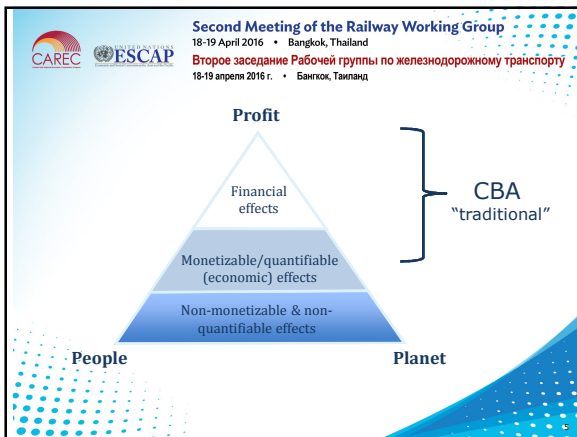
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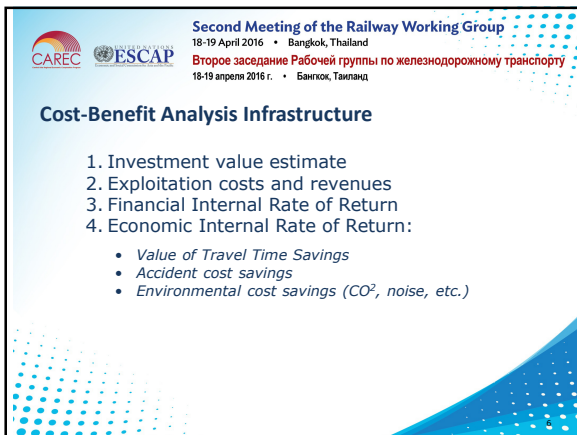
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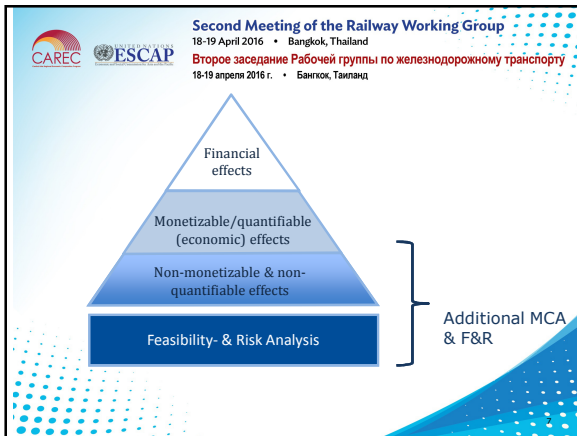
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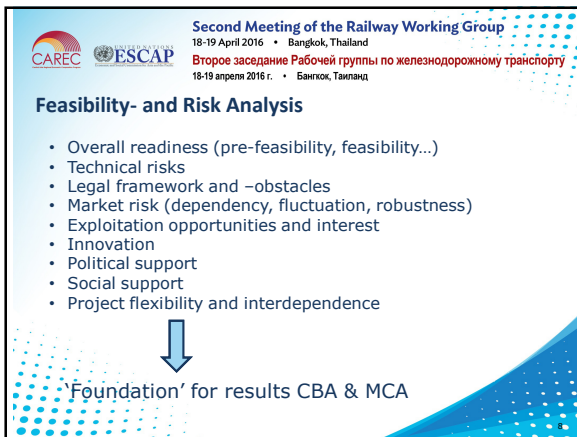
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**MCA & Feasibility- and Risk Analysis**

Objectives/Impacts		Project		
		A	B	C
People	Strengthening of social infrastructure	1	2	1
	Diversification of work- and living environment	2	2	2
Planet	Impact on nature and landscape	3	2	1
	Impact on climate (e.g. shift road to rail)	2	3	1
Profit	(Inter-)national competitiveness and attractiveness	2	2	1
	Accessibility to (inter-)national infra networks	3	2	1
	Impact regional economy	2	2	3
	Impact national economy	2	1	2
Feasibility & risks	Technical risks	1	1	3
	Investment required	1	1	3
	Development plan/graduality	2	2	2
	Legal, procedures	2	2	3
	Social support	1	1	3
	Political support	2	1	2
Support other stakeholders		1	3	3

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**Application**

- Pay due attention to readiness and consistency
- Setting minimum (threshold) and maximum (relative importance) scores
- Benefits:
  1. Full **transparency** in effects and ranking, also in complex projects;
  2. Makes **distinction** between **monetary** and **non-monetary** criteria and **quantifiable** versus **non-quantifiable** criteria;
  3. Supports **efficiency** in decision-making;
  4. Supports **cost-efficiency**;
  5. Defines requirements for underlying **feasibility studies**;
  6. The structure can be **easily adapted** to type of project or modality.

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**Internalization of external effects**

Average external costs 2008 for EU-27 by cost category and transport mode (excluding congestion)

Average Costs per Cost Category

Cost Category	Passenger Transport			Freight Transport			Total		
	Passenger cars	Road Motorcycles & mopeds	Total road passenger transport	Passenger transport	Freight transport	Total	Road Freight transport	Freight transport	Total
Cost Category	€11,000 perTm	€11,000 perTm	€11,000 perTm	€11,000 perTm	€11,000 perTm	€11,000 perTm	€11,000 perTm	€11,000 perTm	€11,000 perTm
Accidents	35.3	17.3	56.6	33.6	0.6	33.2	35.2	17.3	52.5
Air pollution	5.5	6.0	11.5	5.7	2.6	8.3	5.2	17.9	23.1
Climate change high scenario	17.3	9.1	26.4	16.3	1.5	17.8	15.6	44.5	60.1
Climate change low scenario	3.0	1.6	4.6	2.6	0.3	2.9	2.6	1.7	4.3
Noise	1.7	1.6	3.3	1.2	1.0	2.2	1.8	2.5	4.3
Up- and downstream high scenario	5.7	2.8	8.5	5.4	8.1	13.5	5.7	14.3	20.0
Up- and downstream low scenario	2.4	1.5	3.9	2.2	3.9	6.1	1.7	2.7	4.4
Nature & landscape	0.6	0.3	0.9	0.6	0.2	0.8	0.6	0.7	1.3
Non-ferrous metals	0.2	0.4	0.6	0.2	0.2	0.4	0.5	0.5	1.0
Soil & water pollution	0.3	0.3	0.6	0.3	0.3	0.6	0.3	0.3	0.6
Urban effects	0.0	0.4	0.4	0.0	0.6	0.6	0.1	0.9	1.5
Total high scenario	64.7	33.8	98.5	59.3	15.1	74.4	59.5	79.9	139.4
Total low scenario	48.1	24.9	73.0	48.4	9.8	58.2	24.6	36.1	84.3

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