Integration of Multimodality

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MetaCDM workshop 3

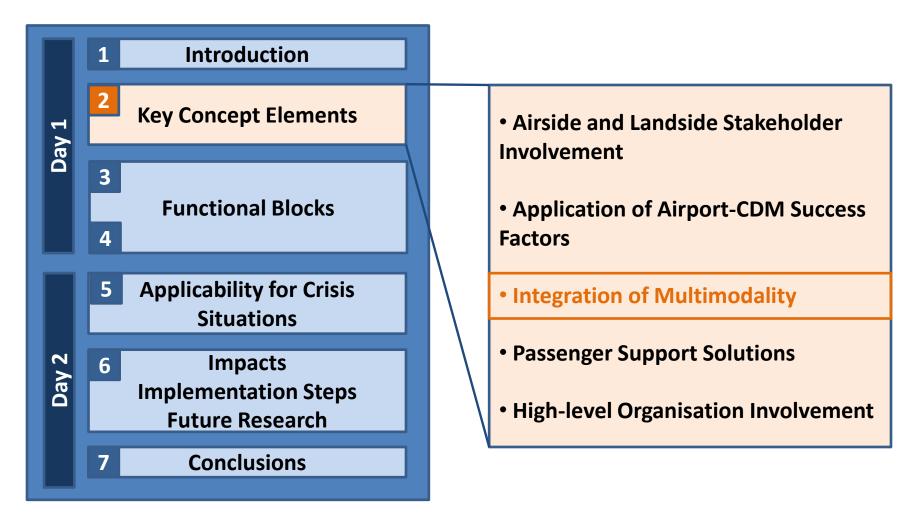
14th May 2014







Workshop and MetaCDM concept structure







Background

- Literature review and interviews revealed that direct integration of other modes is difficult
 - Incompatible databases, security and liability issues, competition, different priorities...
- But also:
 - Passengers often switch modes by themselves when faced with major disruption
 - Multiple information sources exist on alternative mode schedules, disruption, tickets etc.
 - Information on what airlines will reimburse is often unclear
 - Opportunity to make this process easier for all involved





Multimodality in MetaCDM

Role of alternative modes depends on situation:

- Flights are running normally or delayed
 - Provide information on getting to the airport (e.g. are roads congested?)
 - Passenger arrival times at milestones
- Flights are cancelled
 - Provide information on alternatives
 - Inform on passenger rights and what the airline will pay for/reimburse
 - Streamline process of rebooking on alternative modes
 - Fallback option is current strategy (hotel/next flight)





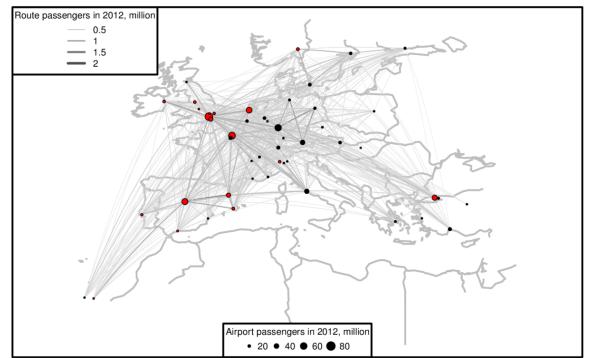
Multimodality in MetaCDM

- Works best if alternatives are flexible: rail, car, coach, ferry, flights from/to alternative airports
- Suitable/best ground transport options will depend on
 - Specific airport/city: geographical location, transport links
 - Type of disruption: is it also affecting ground transport?
 - Costs to airline, passenger, ground transport providers etc.
 - Time of day, schedules of alternative modes
 - Passenger preferences, visa situation, onward connections, luggage...
- Corresponding milestone approach and information exchange needs to be flexible (more on this later)





- 50 busiest airports in Europe, 2012 (including all 20 airports with the highest arrival delay, 2012, in red)
- Most delayed airports are also typically major hubs
- Availability and suitability of land routes varies...



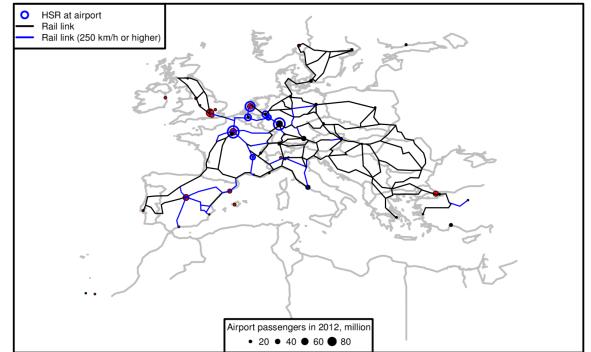
[Data: Eurostat 2014, Eurocontrol 2014; IATA 2013]





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[Data: MODAIR 2014, Eurocontrol 2014; IATA 2013]





- Nearly all airport-pairs have alternate-mode options
- Journey starts at home not at the airport
- Feasibility of route depends on length of delay...

	Arrivals	Departures
2012 total passengers (million)	228	223
On routes with current HSR airport-airport connections	2.7%	2.6%
On routes with current or planned HSR airport-airport connections	8.7%	8.5%
On routes with city-city HSR connections	30.3%	30.0%
On routes with city-city rail connections (any type)	86.0%	83.8%
On routes with road airport-airport connections (excluding ferry/train)	62.8%	62.7%
On routes with road airport-airport connections (including ferry/train)	96.0%	96.0%
On routes with ground access to alternative origin/destination airport	100.0%	100.0%





- Need to exclude long, multi-change and other infeasible ground routes
- For a 10-hour Road Rail 40 Fastest method time to next ime to next flight (hours) flight, over 30 50% of pax 20 could still 10 arrive sooner by ground 0 20 60 80 40 modes

Percentage of passengers for whom alternative mode is quicker [Data: Eurostat 2014, Online travel planners]





Hurdles/Reality check

- Not all passengers can (or will want) to use other modes in crisis situations
 - Need options for information exchange to pax without smartphone data capabilities
 - Need to consider mobility issues along route
 - Lack of face-to-face advice may be a problem for some
- Improving passenger satisfaction requires that passengers feel safe, secure, confident of route etc.
- Fallback options of cancelling travel and hotel/next flight need to remain available



