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hallenge the future

1.

#### Introduction

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Disclaimer; this seminar is not intended to be complete. There are opportunities for research that will not be discussed such as the impact of terrorism on aviation, the impact of long haul low cost airlines, development of frontports, reducing turnaround times to 20 minutes, MRO developments, fleet planning, alliance forming, network and airport development etc.

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Where are we today and where do we go from here?



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This is a current research topic .....

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### But what is next: Advances in transport technology

- Containerisation
- Hauling ore
- Aviation

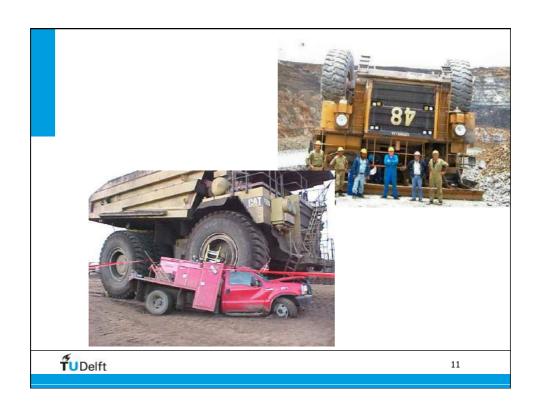
Do we still have challenges?

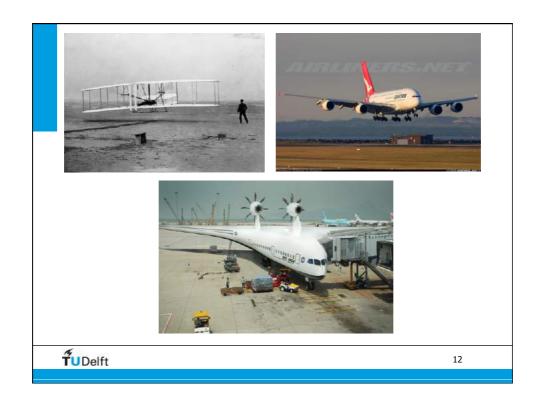


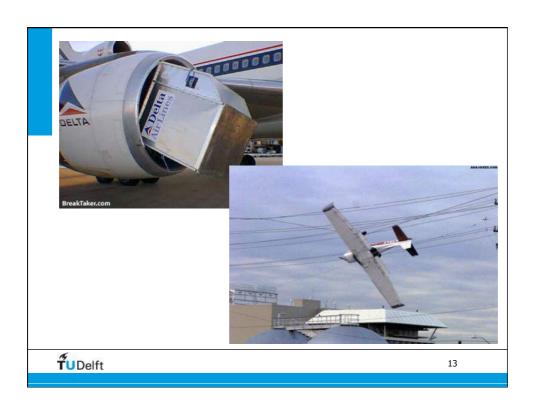


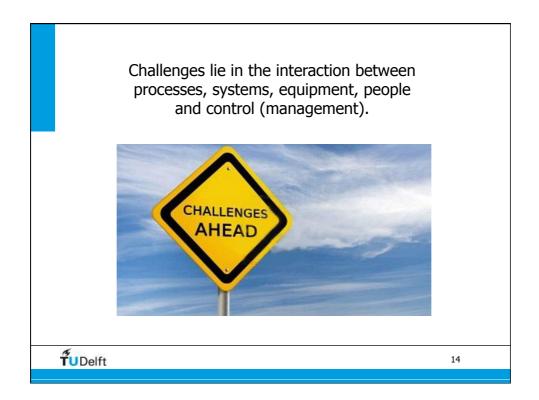












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## Automation

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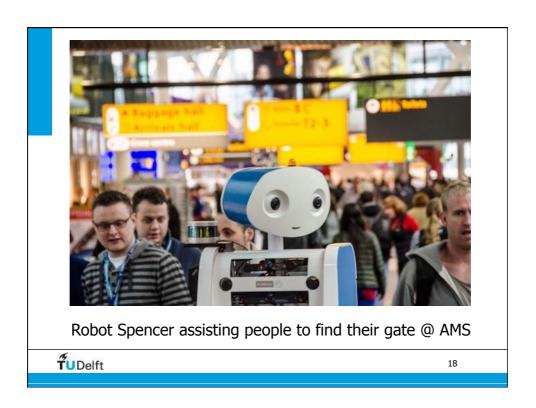
## Finding your way around airports



Info system @ SIN

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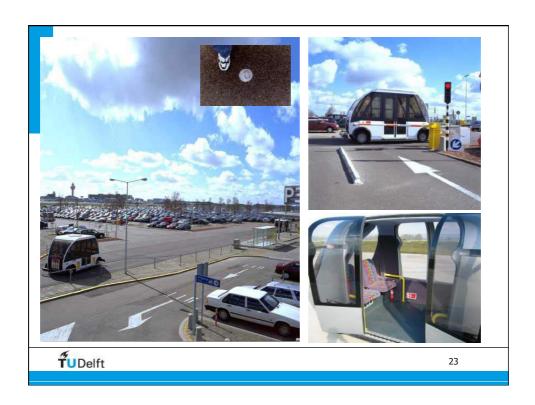


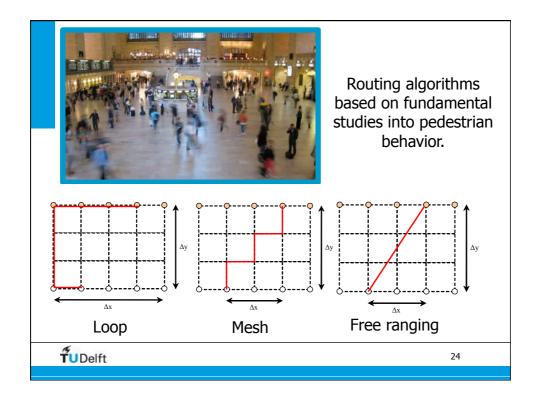


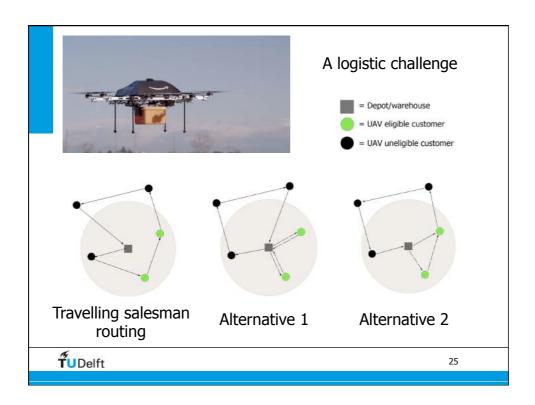














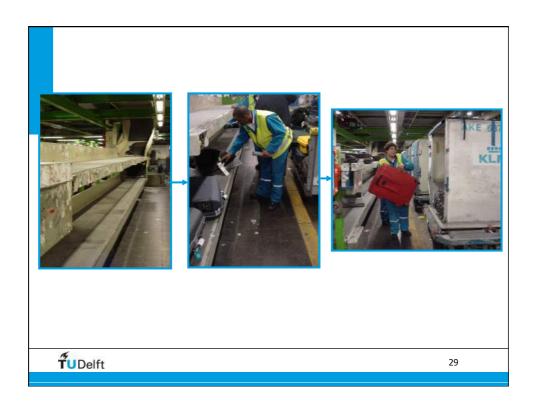


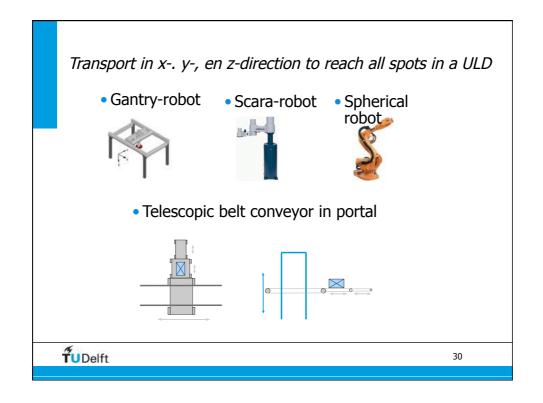
# Next generation baggage loading systems for wide body aircraft

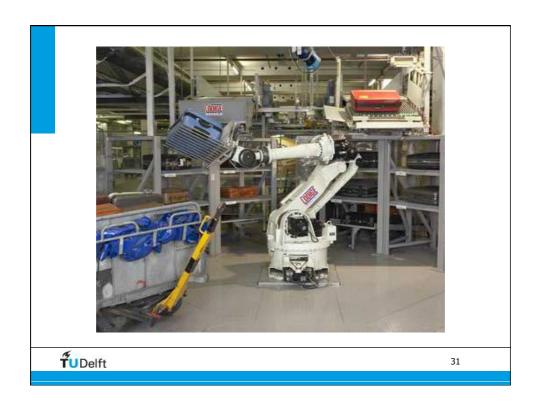


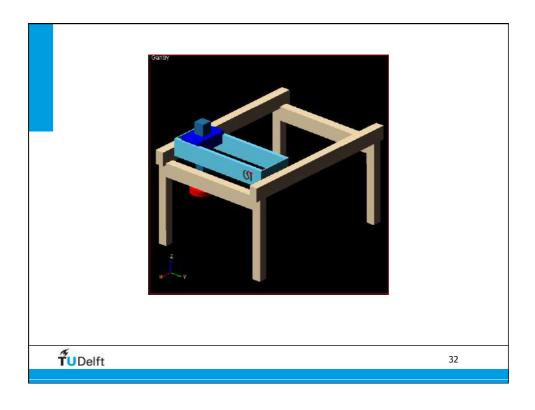


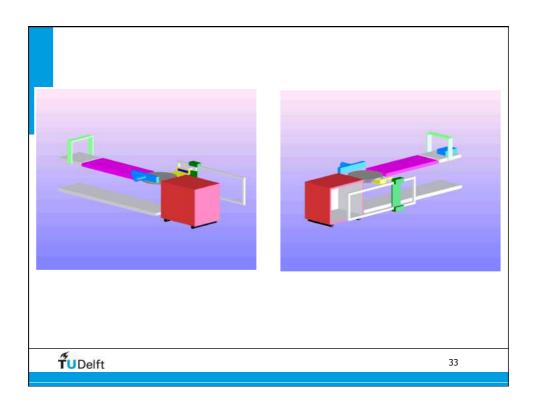
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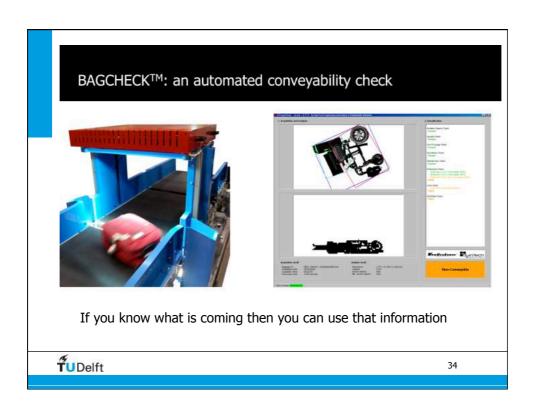


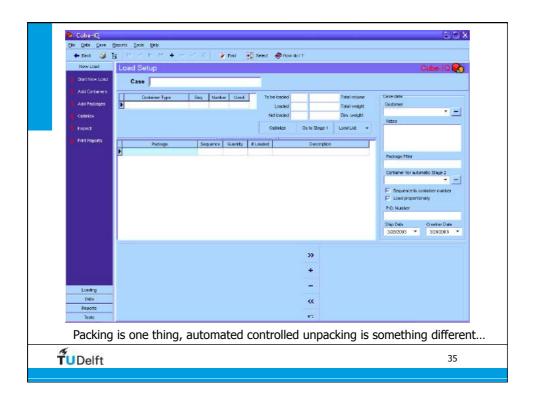


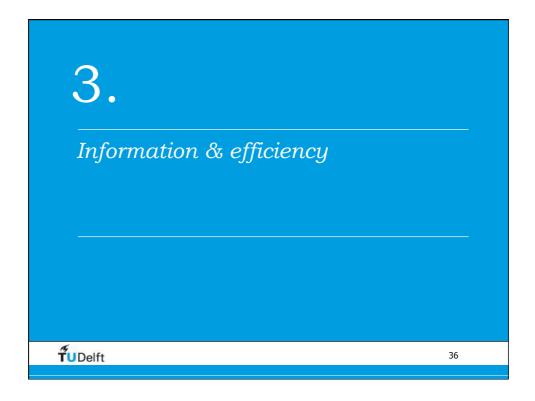










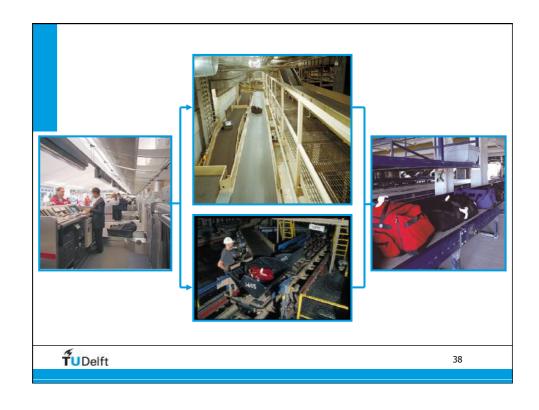


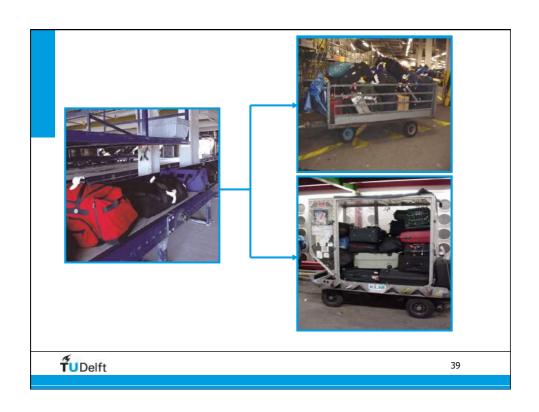


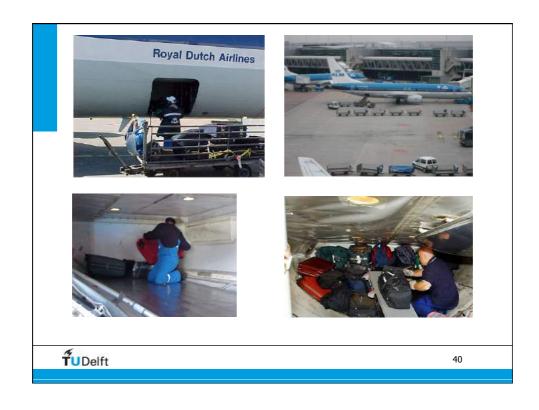


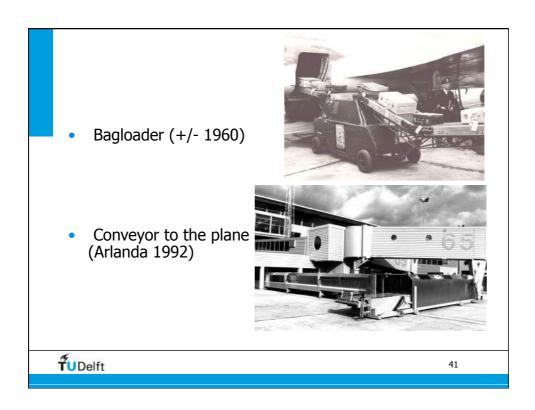


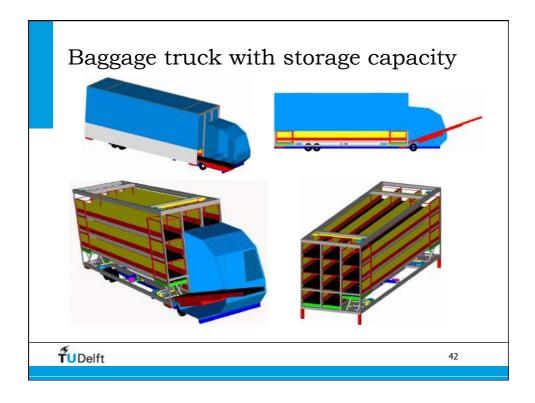
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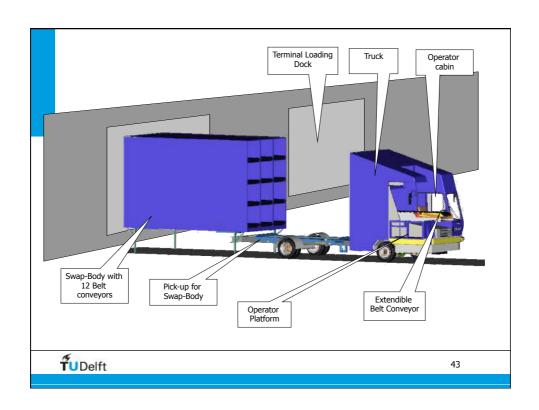


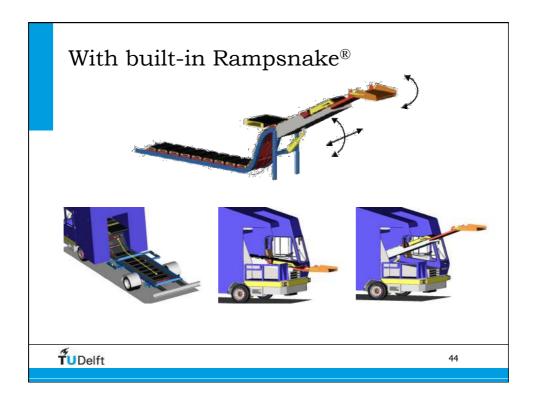




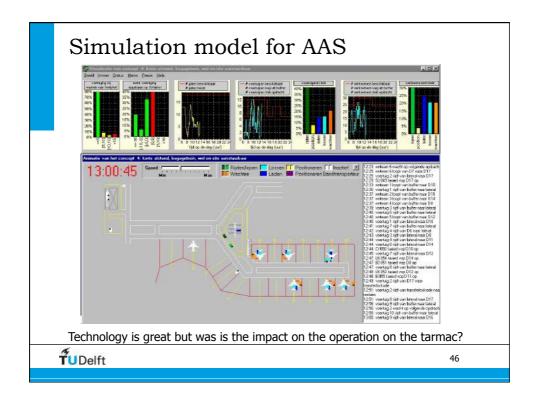




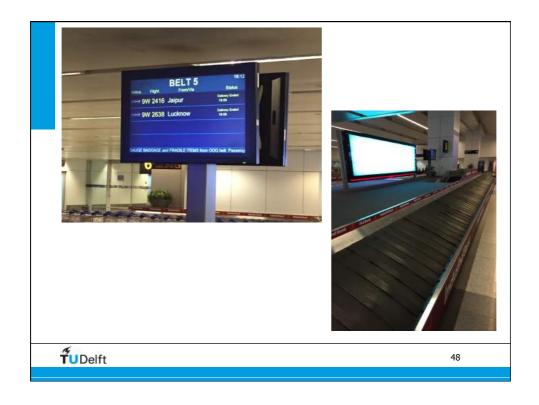


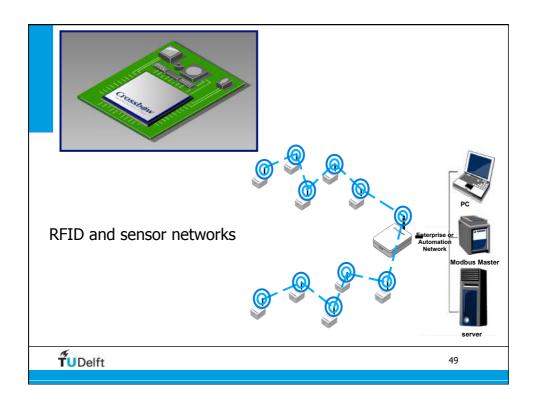


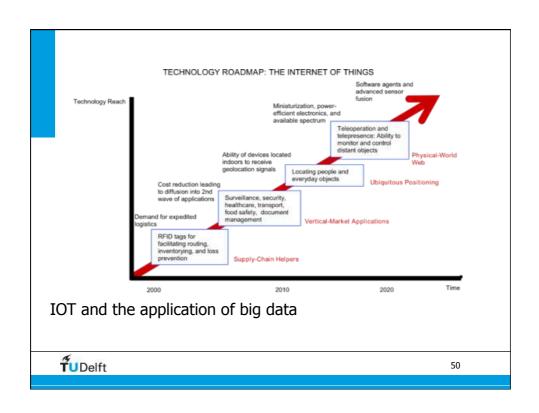






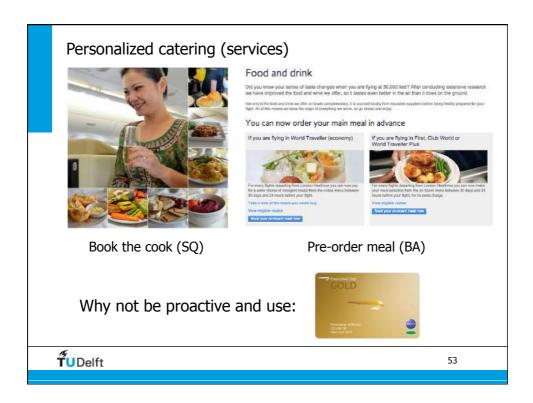






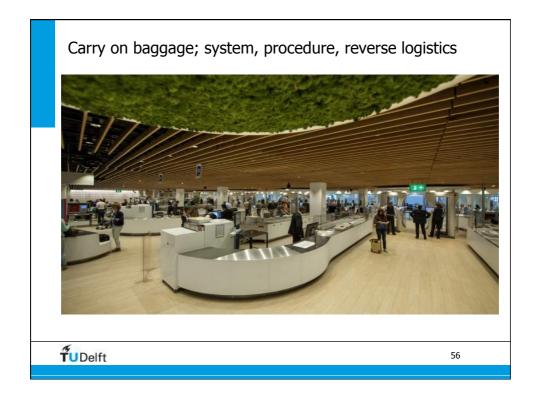












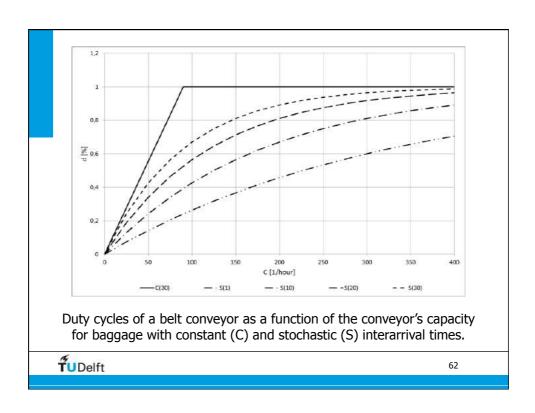


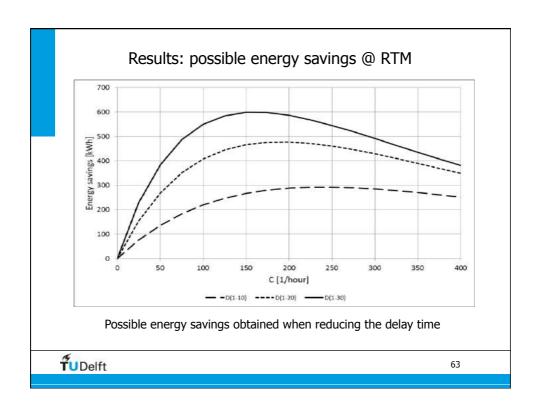


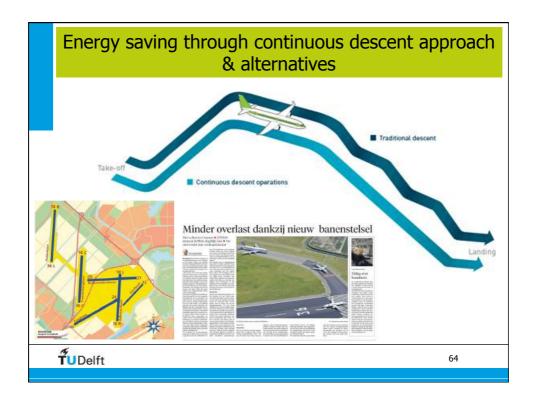














- Landing order negotiations dynamic gate allocation
- taxiing options



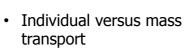


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#### Energy saving options in people movers





 Continue versus discontinue transport





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