

Handling Passenger Information

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Agenda

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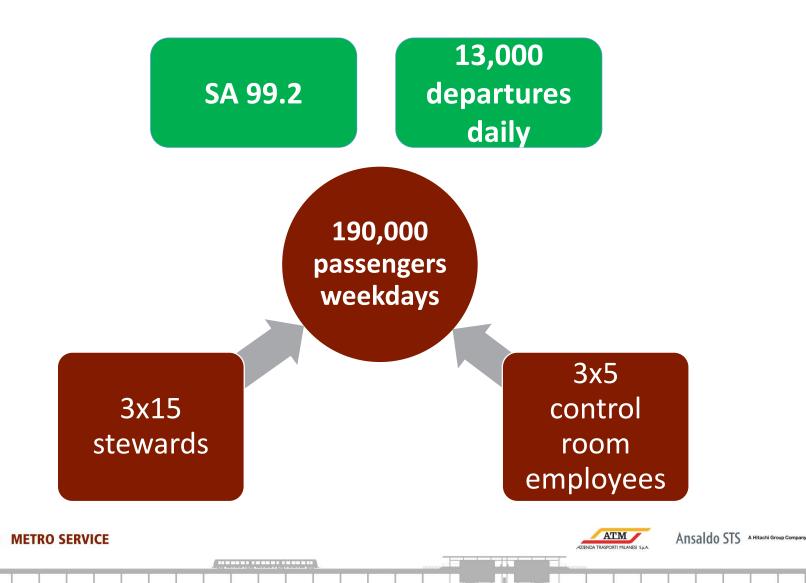
The Copenhagen Metro - Facts







We strive to meet high expectations



The ATC-system & safety

- The driverless metro relies on digital technology for monitoring safety
- The ATC-system sends an alarm when problems occur
- The people cannot overrule the ATC in a way, which creates a safety risk
- When an alarm sounds, the Train Dispatcher initiates the relevant scenario





IN STOP 2

PIO responsibilities for passenger information

- Live information calls to trains and stations
- Alarm and info calls from passengers
- Messages for

FTRO SERVICE

- Platform displays
- Twitter and m.dk
- Digital displays
- Information to other PTO's
- Log what is said and done
- Service for malfunctioning ticket vending machines





Steward responsibilities for passenger information

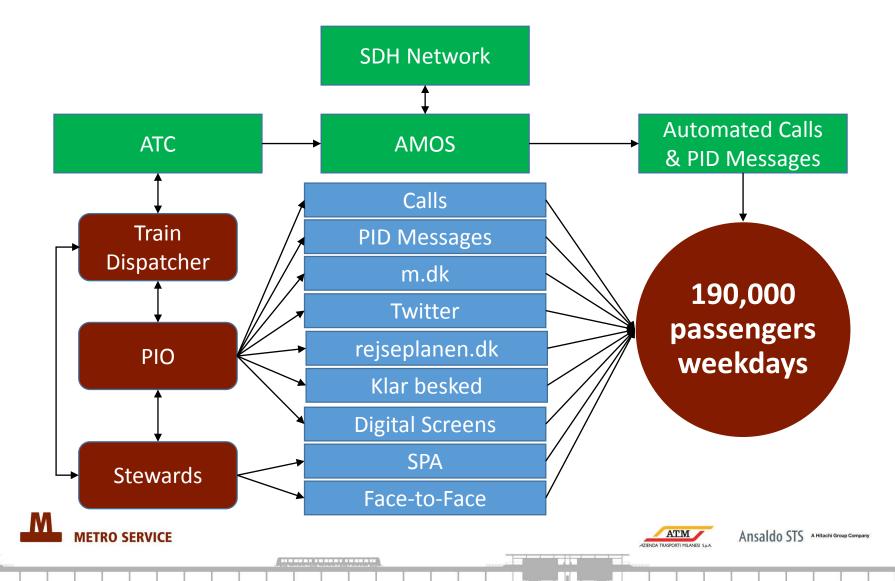
- Passenger information
- Crowd control
- Passenger questions
- Ticketing

TRO SERVICE

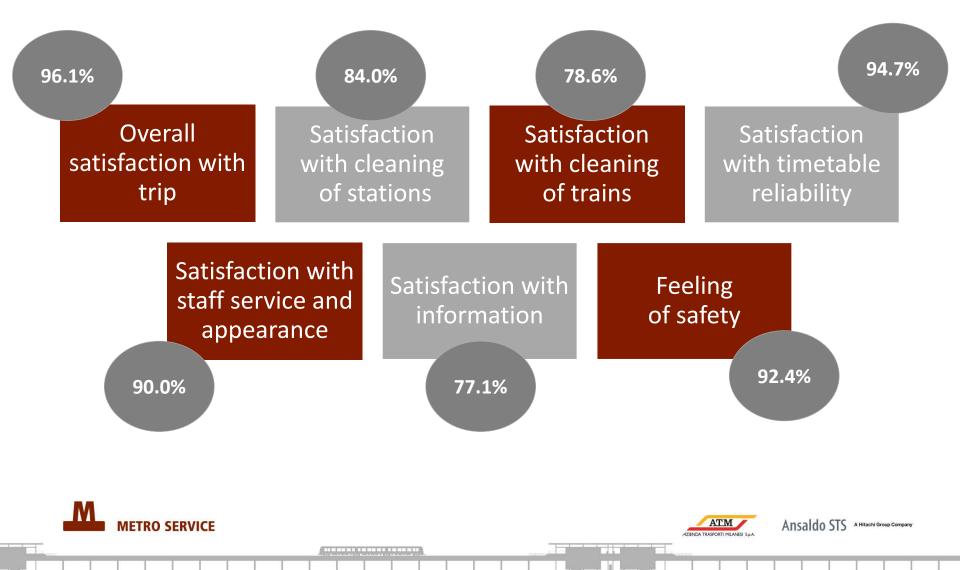
- First aid and light firefighting
- Manually operating malfunctioning trains
- Checking station and train equipment
- Reporting all errors, graffiti, etc. to the control room



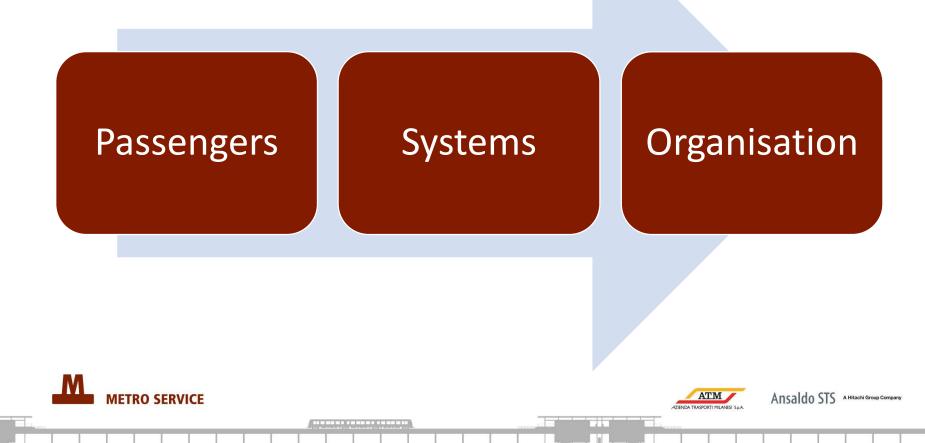
The Passenger Information Flow



Measuring customer satisfaction Total 2016, in percent



Moving forward



The passengers' perspective

- Analysis August 2016
- Overall positive experience
- See disruptions as rare, but remember them
- Feel loss of control and uncertainty during disruptions
- Crowded trains and platforms increase anxiety
- Want fast information Why?
 For how long? Options?





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Challenges in the current system during disruptions

Not all messages are received

- Queues overlap M veternager
- Messages are lost
- The system is not scalable
 - Second PIO means less reliability
- The system set-up is limiting
 - Several different media
 - Answer passenger calls





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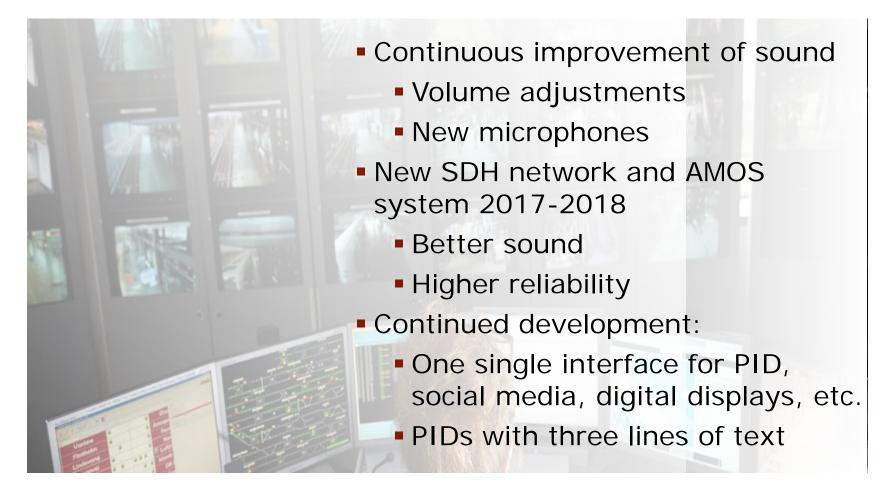


Strategic focus areas to improve passenger information

- 1. Securing a system with excellent sound
- 2. Securing a system where all service calls get through
- 3. Strengthen relations between CCR and stewards
- 4. Addressing the barriers for making live SPAs
- 5. Rethinking the priorities of the PIO



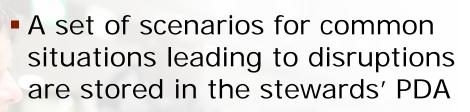
Improving the passenger information system







Scenario planning gives better and faster information

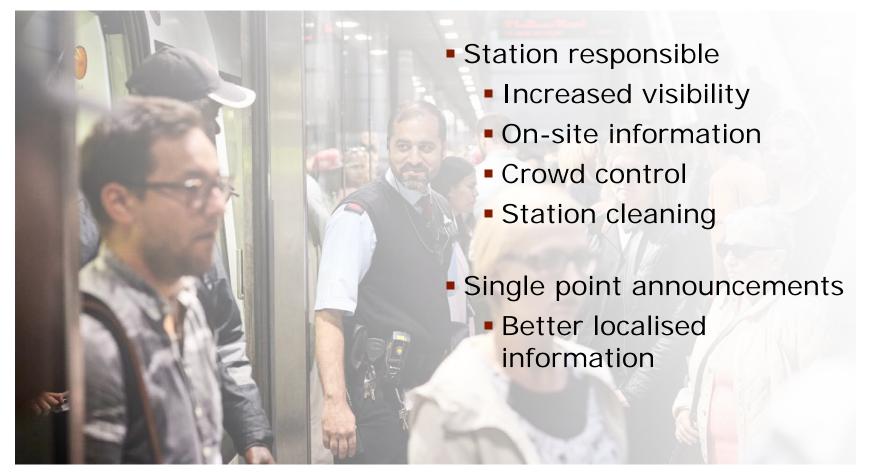


- The Train Dispatcher selects relevant scenario and informs the steward by radio
- The scenario details
 - Where to go
 - What to do
 - What to say





New responsibilities for stewards improves passenger service







Commercial digital displays can be used during disruptions

- Can be taken over by Control Room during a disruption
- Ongoing implementation
- Large potential









Any Questions?



Thank you





