

Work as Done vs Work as Imagined

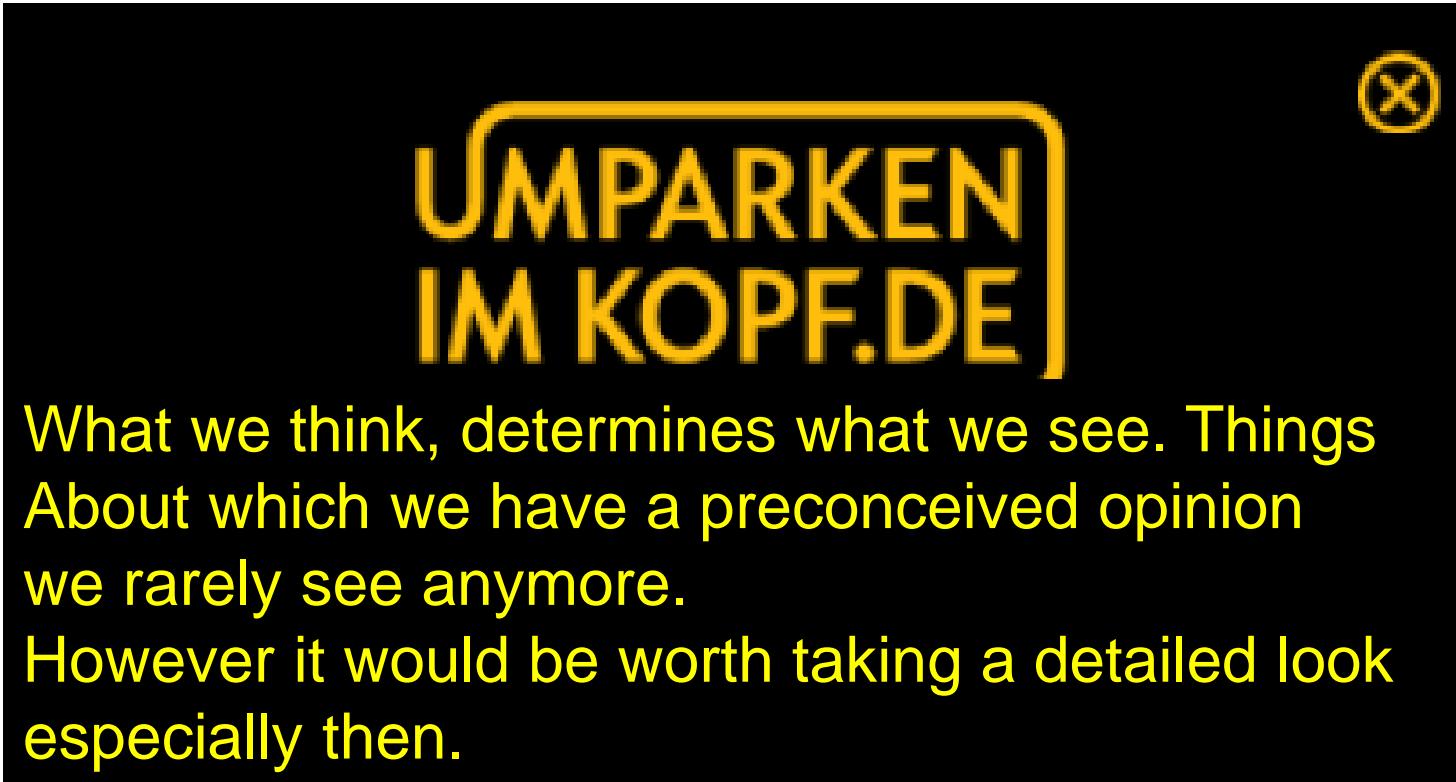
Improving Runway Operations from the Car Park

Sebastian Dünert, Safety Manager TWR/FRA



DFS Deutsche Flugsicherung

Prequel



Source: „Opel Advertisement“

Prequel

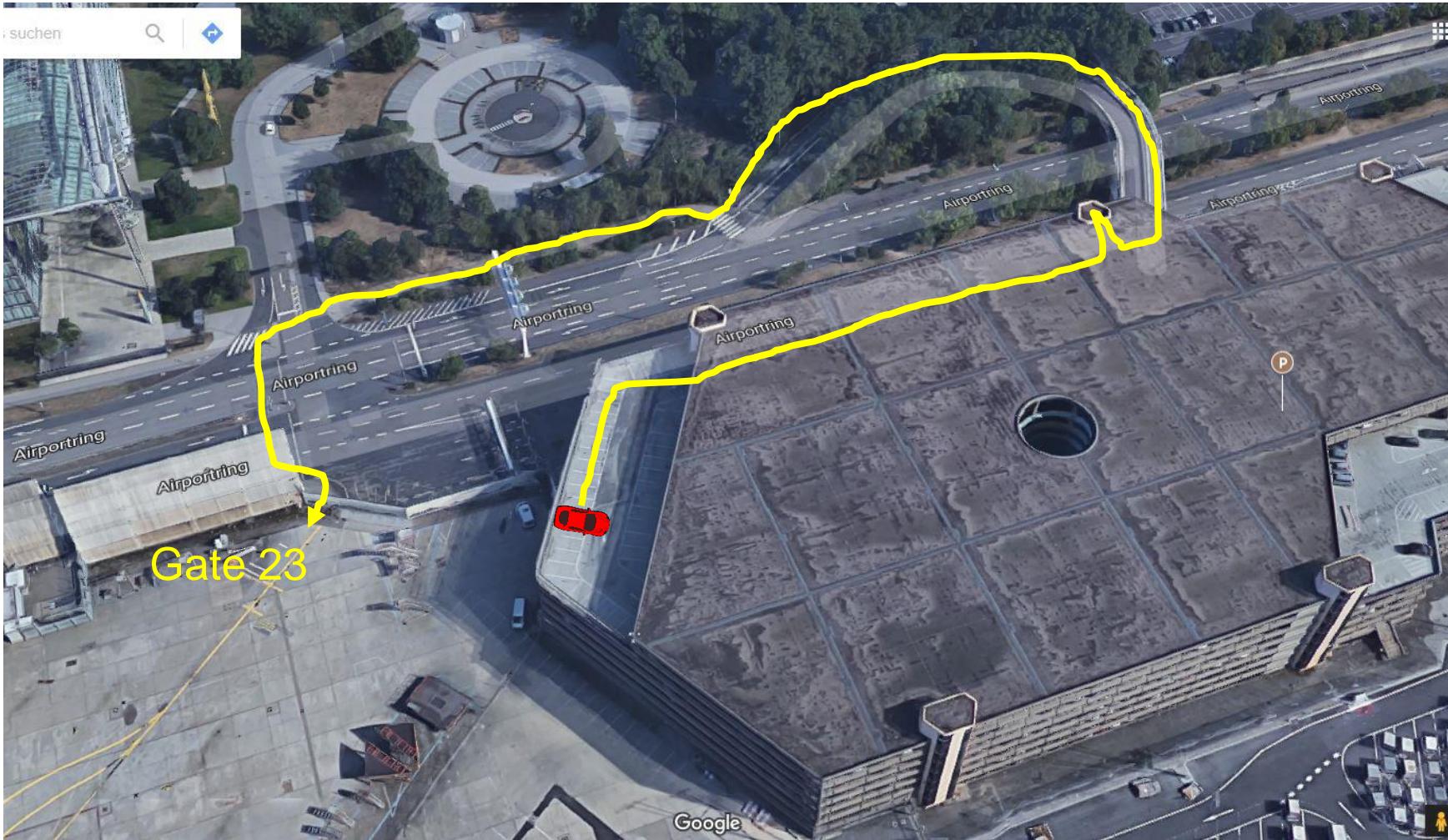


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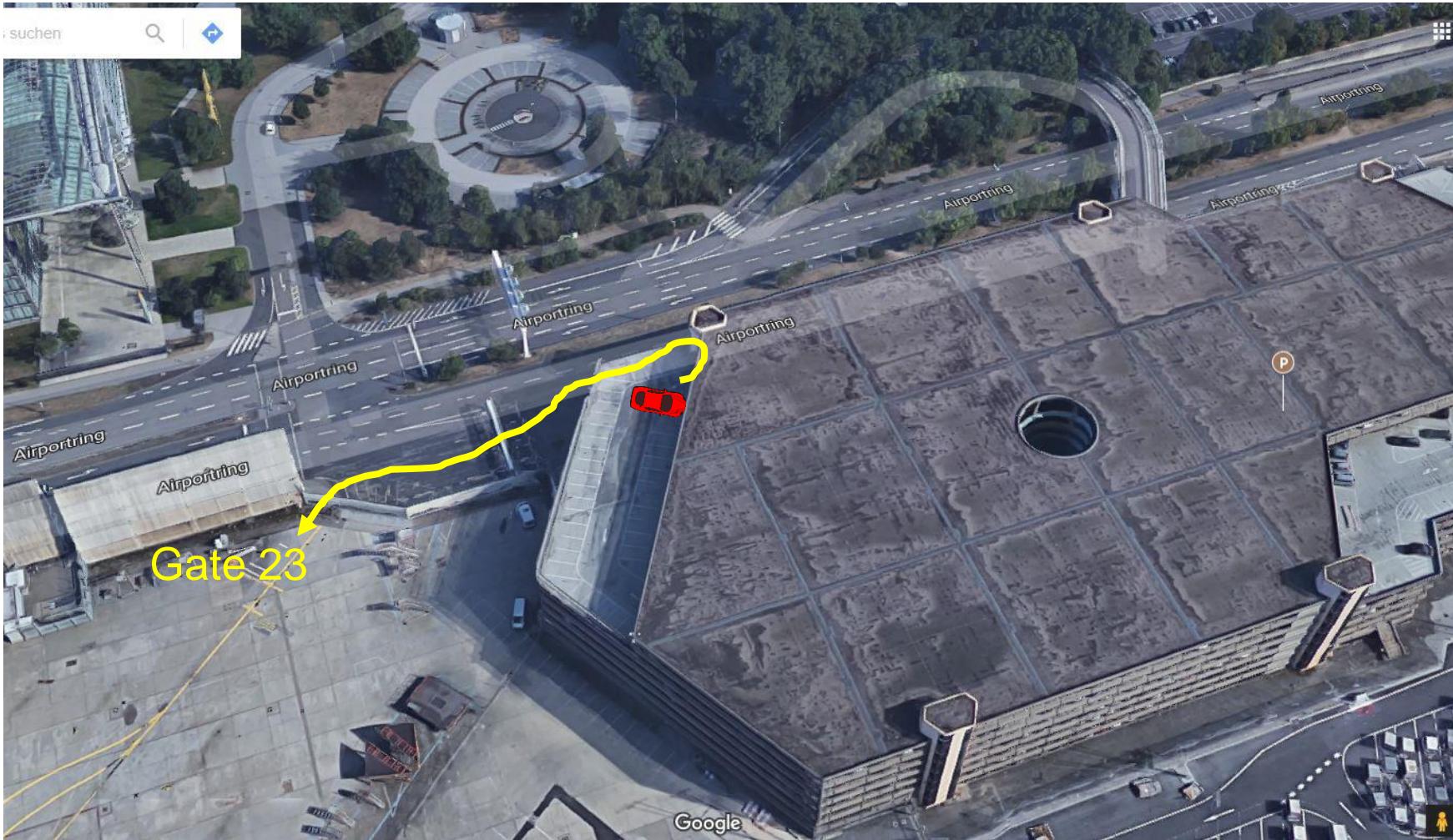


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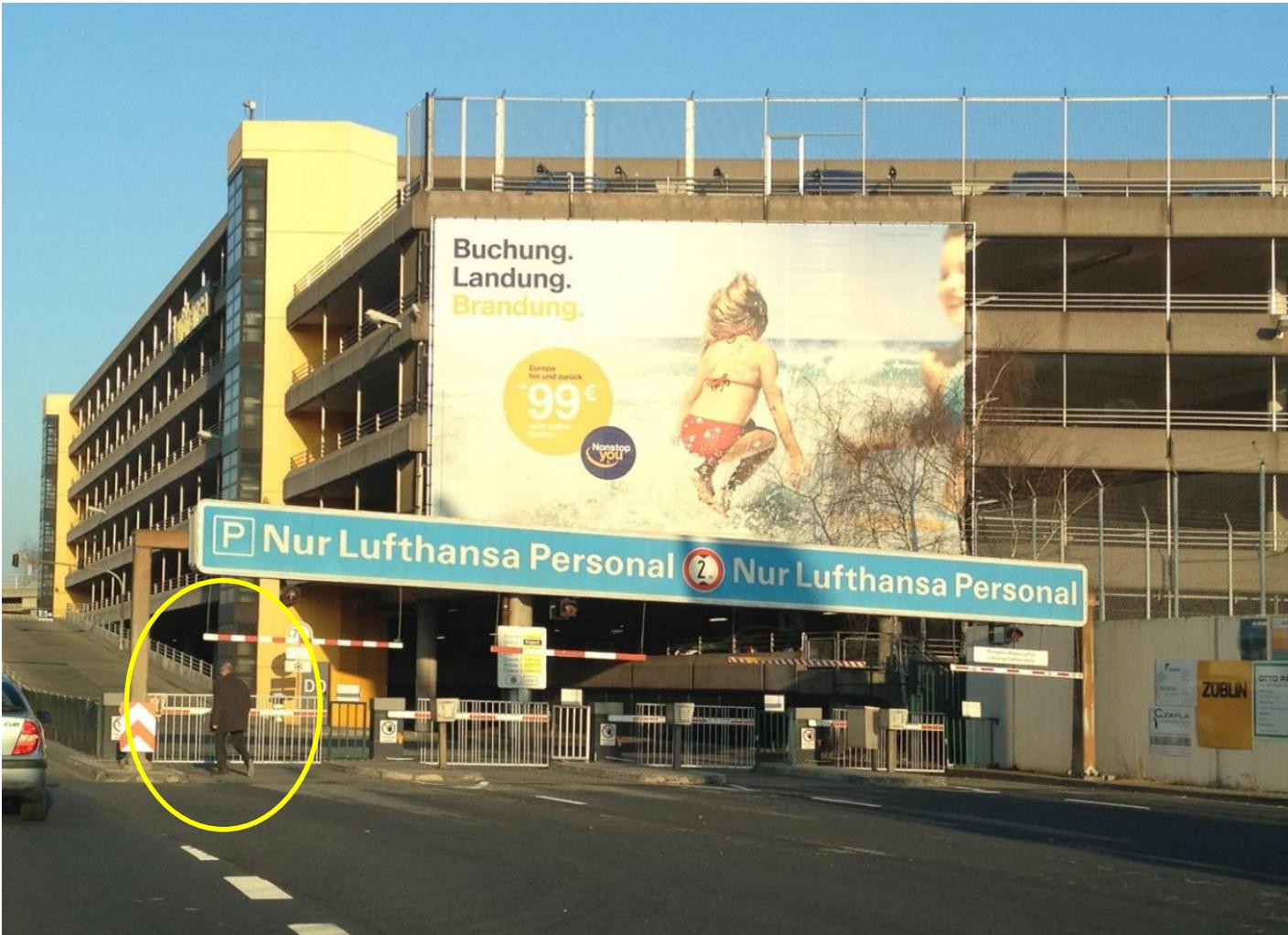


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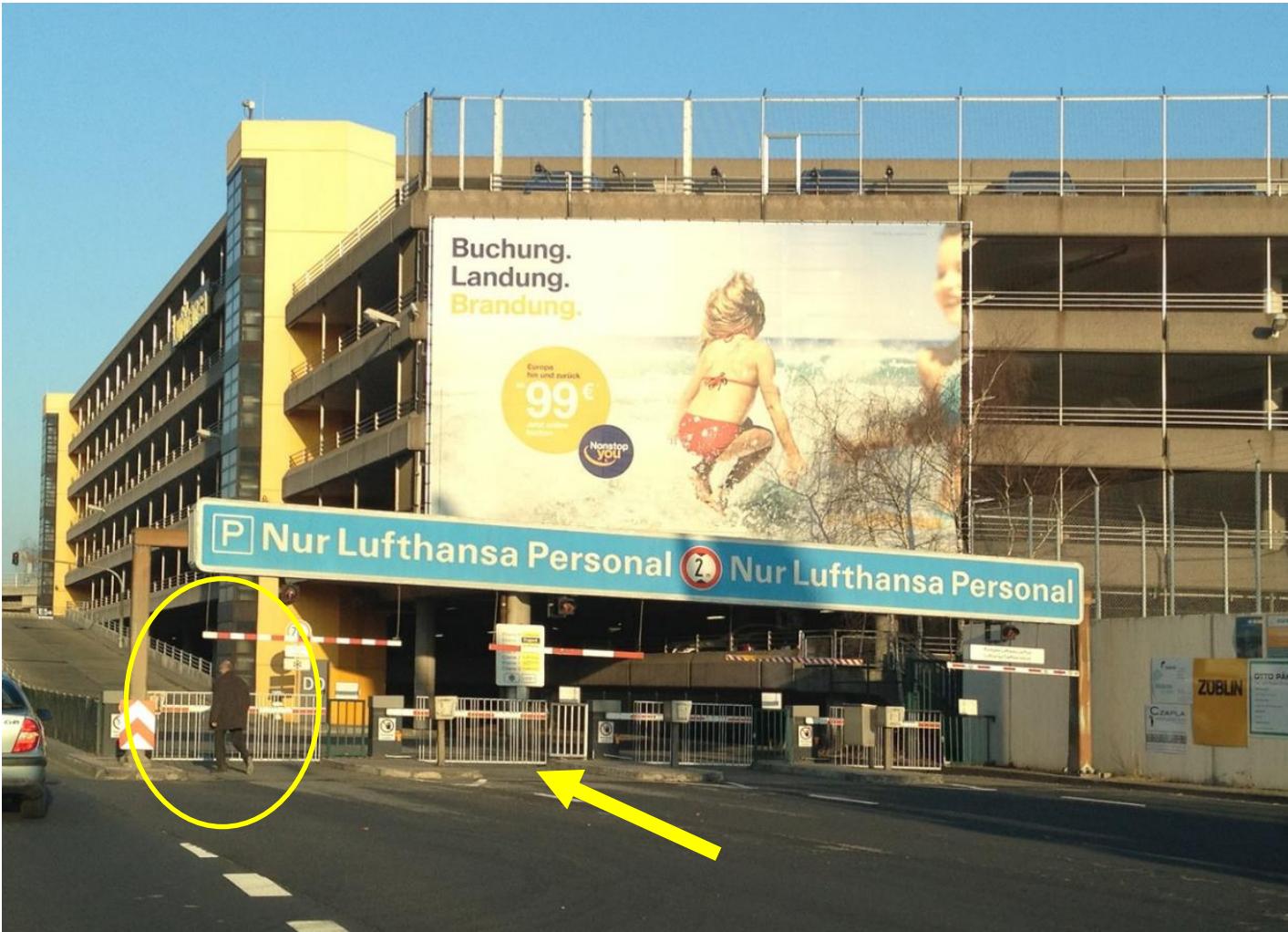


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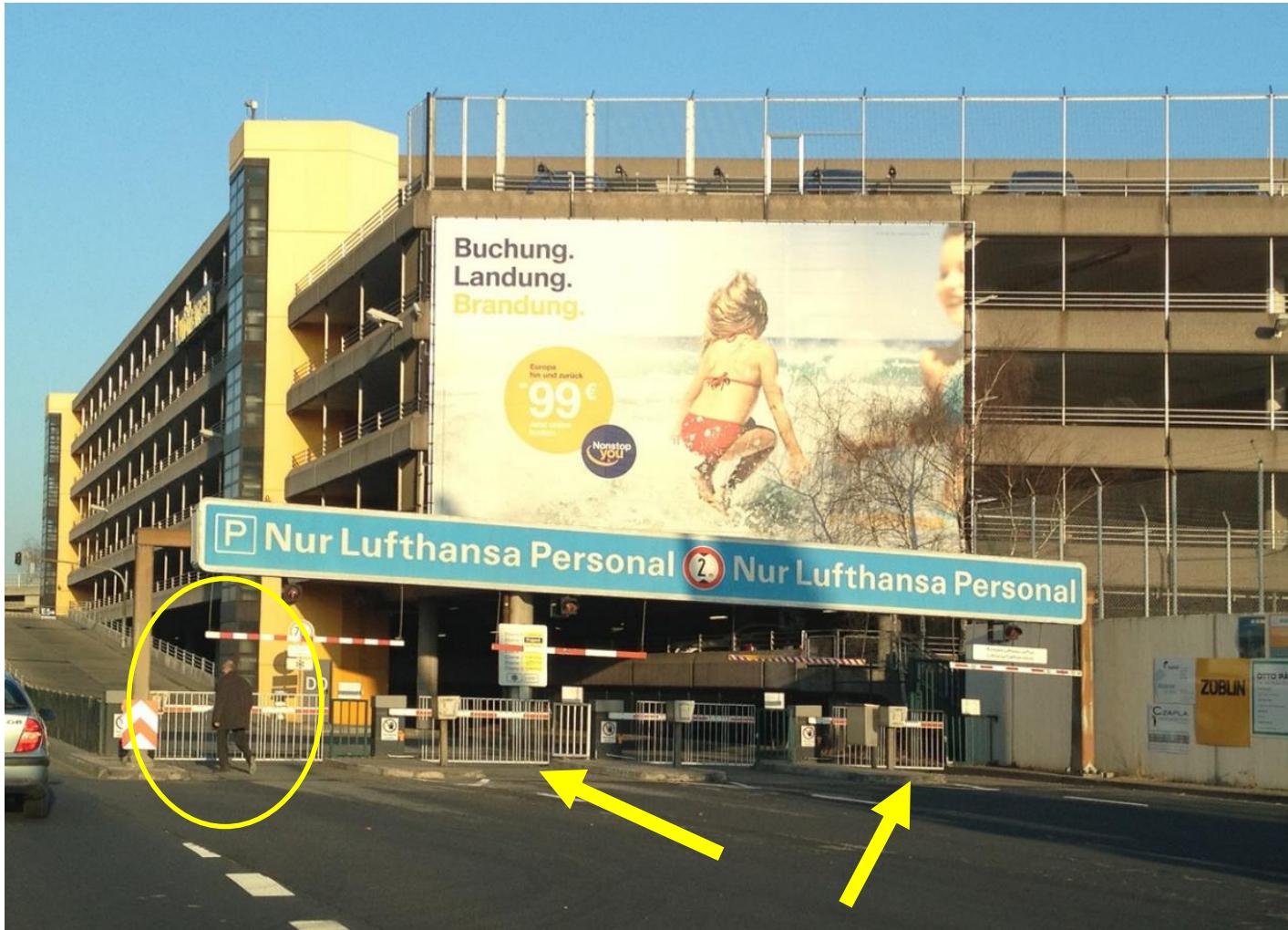
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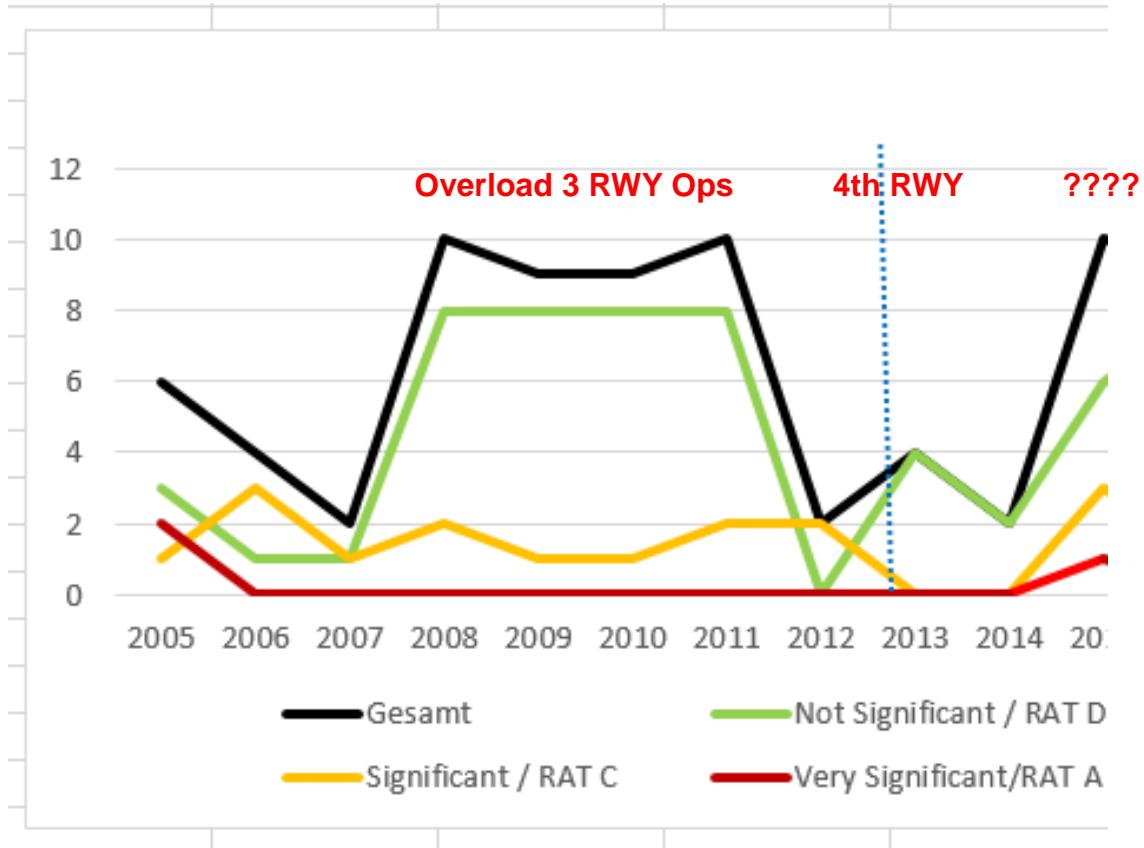


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The Situation



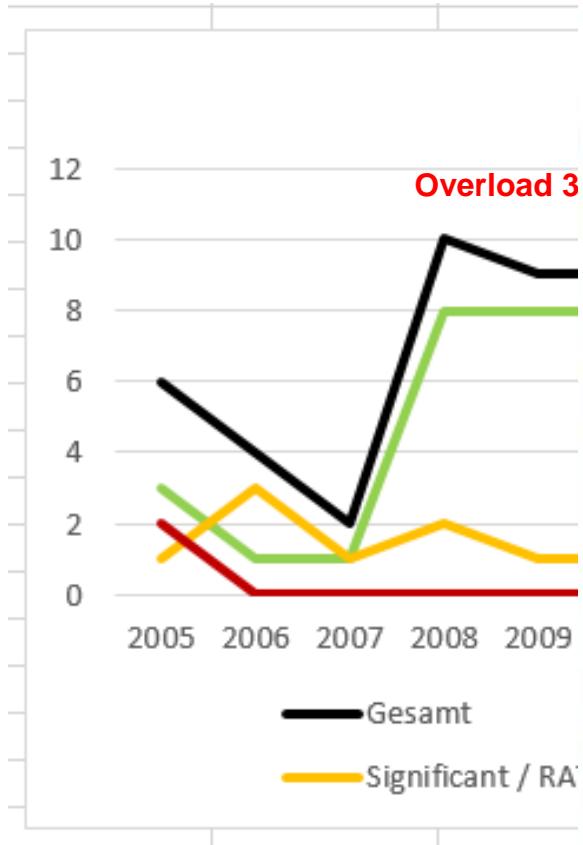
Tower:
Tower Frankfurt nutzt den Streik und übt selten genutzte Betriebsverfahren



17.11.2015.-
der Lufthans
Woche zu m
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The Situation



Tower:

Tower Frankfurt nutzt den Streik und übt selten genutzte Betriebsverfahren

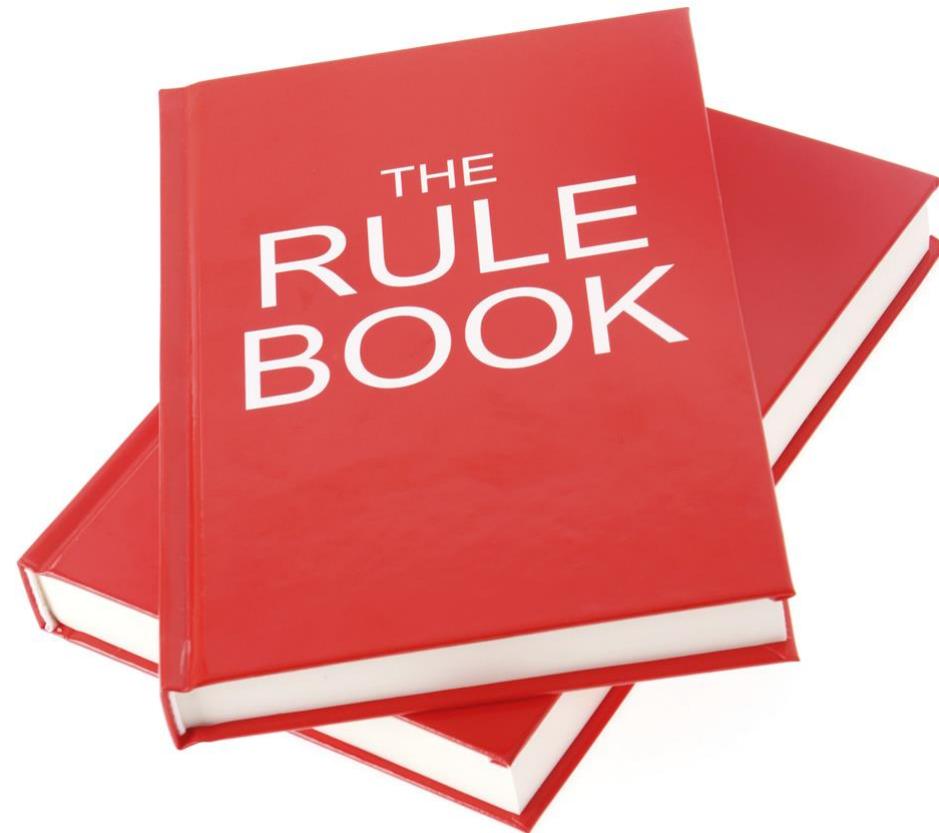


Mitarbeiter des Tower Frankfurt während der Contingency-Übung am Tower Süd

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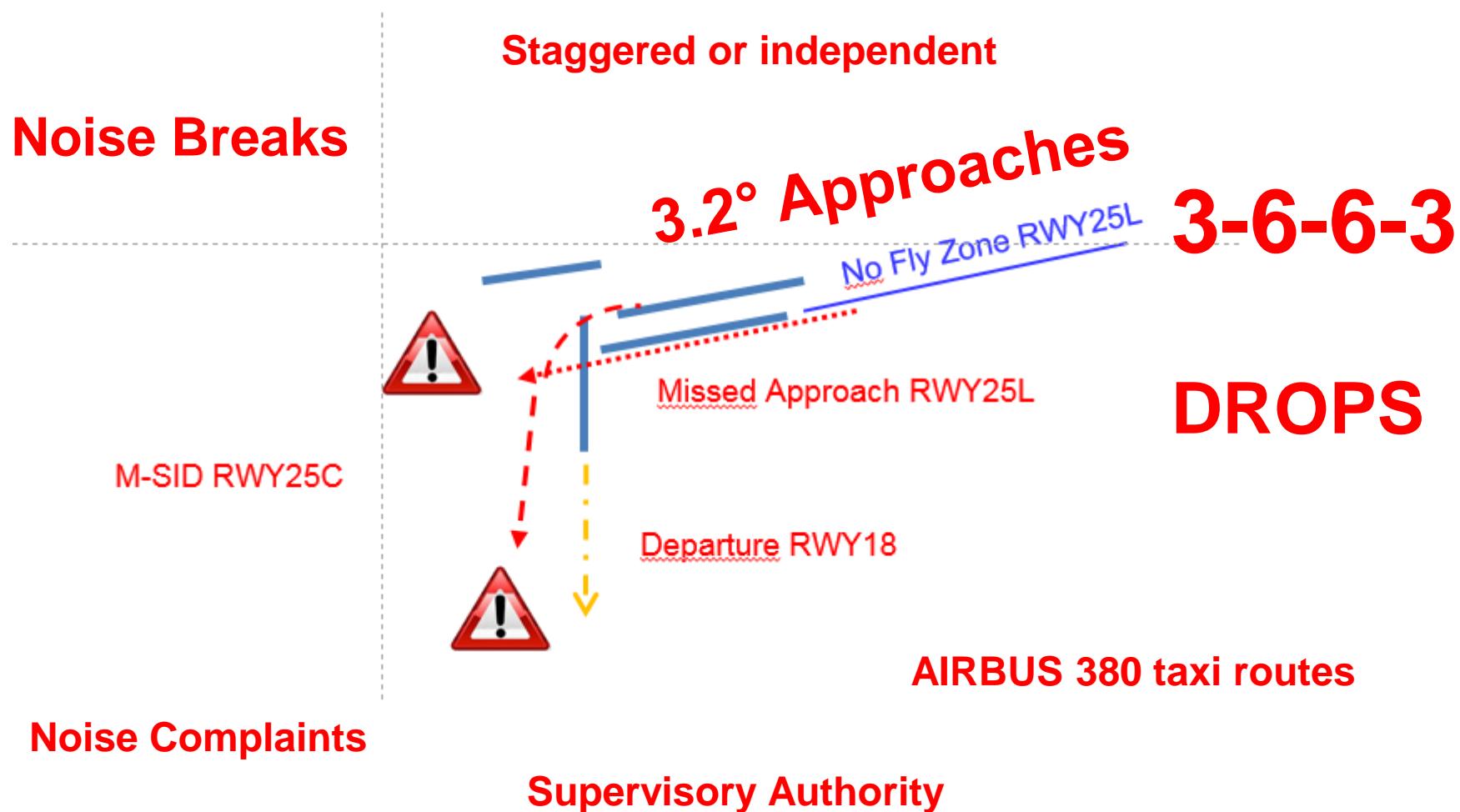
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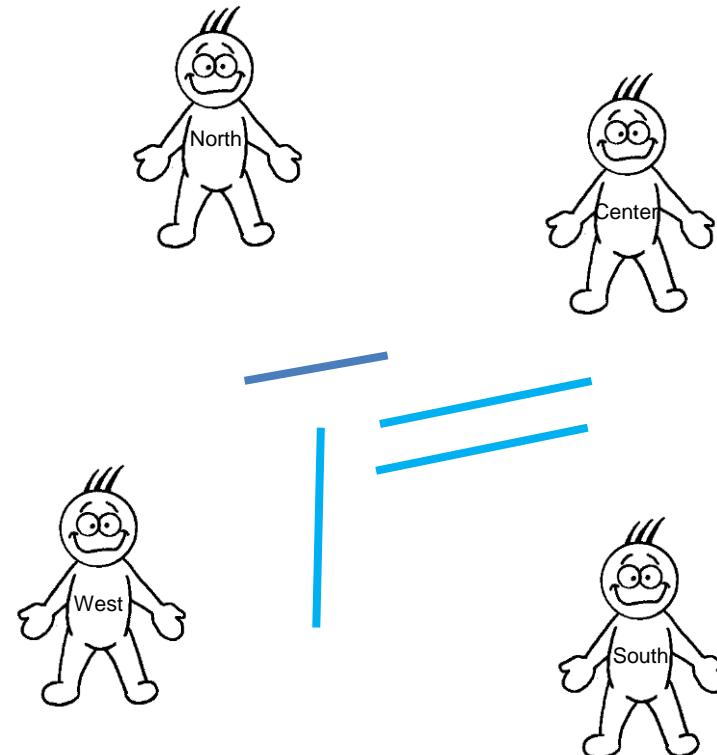


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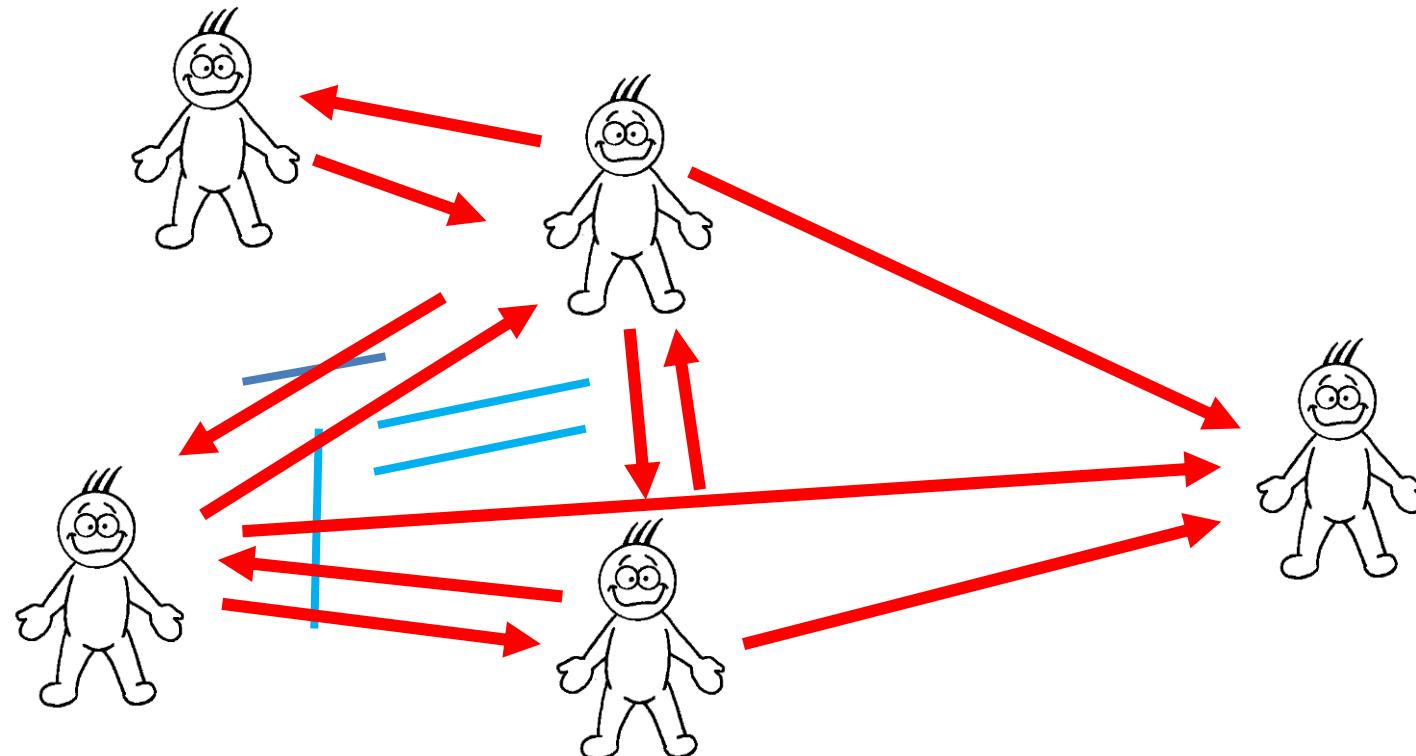
The Situation



Coordination in the event of unforeseen events



The Situation



The Situation

- You must obey all the rules. The rules are complicated and change all the time.
- You must not disobey the No Fly zone
- You must not use swing overs to cancel the „no fly zone“
- Your supervisor will determine the arrival sequence
- You must not eat an apple whilst inside the ops room
- Your departure sequence will be predetermined by a computer
- Do not adapt working positions to the traffic situation.
- There are MDIs strictly to be observed. Never deviate even if aircraft performance would render it useful.

The Situation



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Small Steps

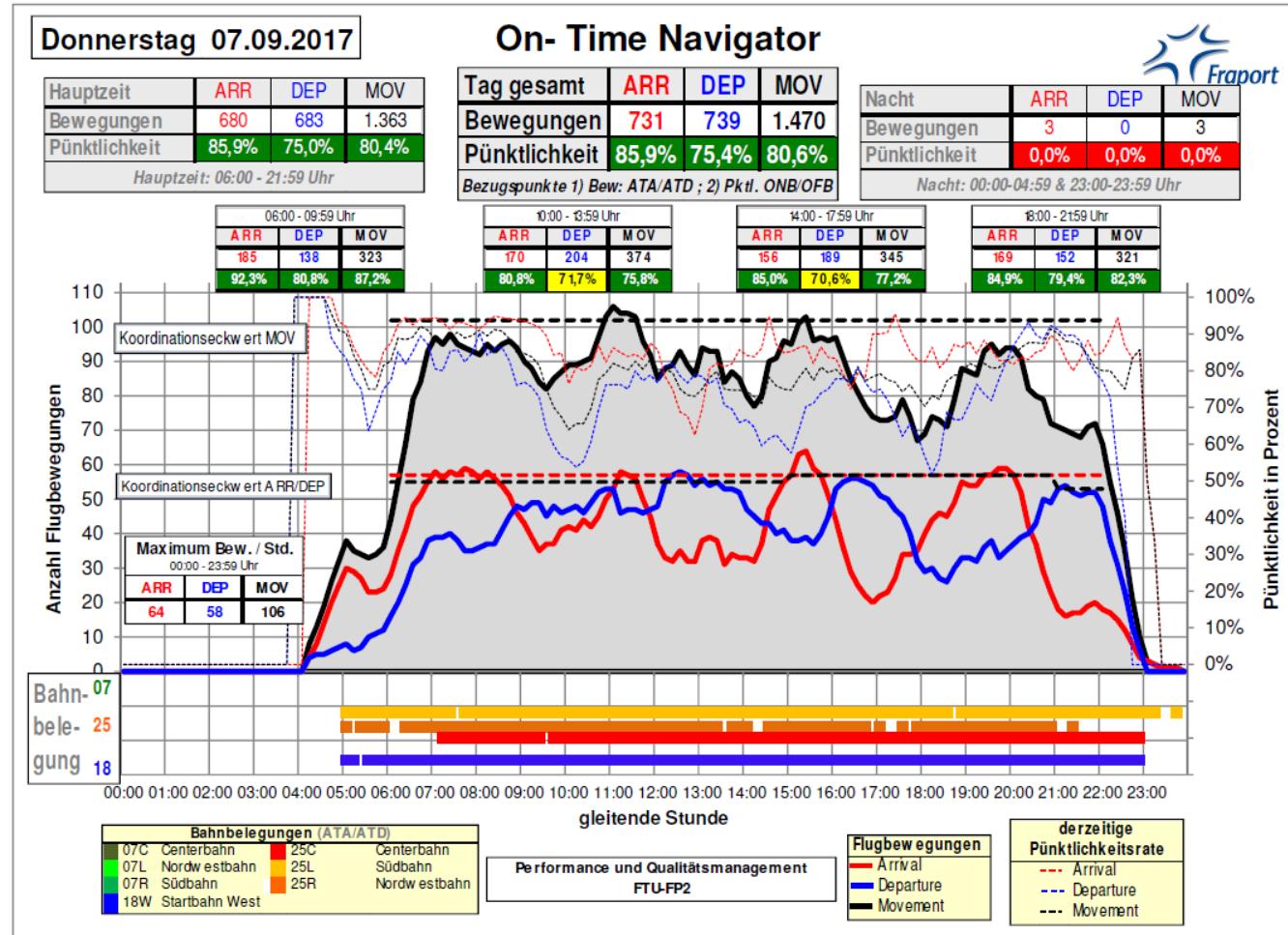
- You may let aircraft depart if they cannot follow the SID if you tell them to keep visual reference to the ground
- You may swing over aircraft in order to avoid the no fly zone
- There are no more MDIs
- Heavy Aircraft may depart from intersections
- Feel free to do short term coordination with your adjacent approach controller about the sequence

Big Steps



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Big Steps

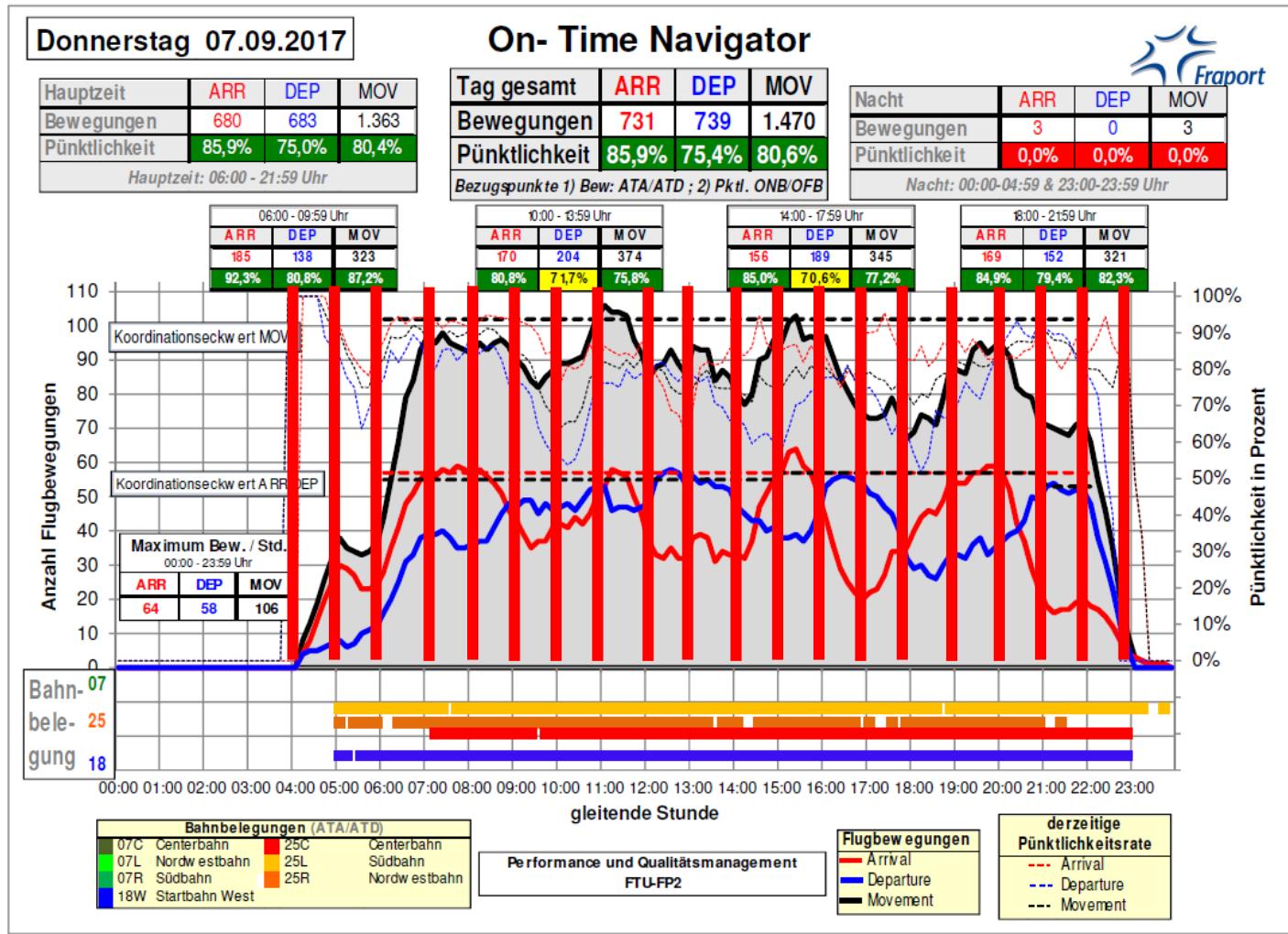


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Big Steps

YES
NO
YES
NO
YES
NO
YES



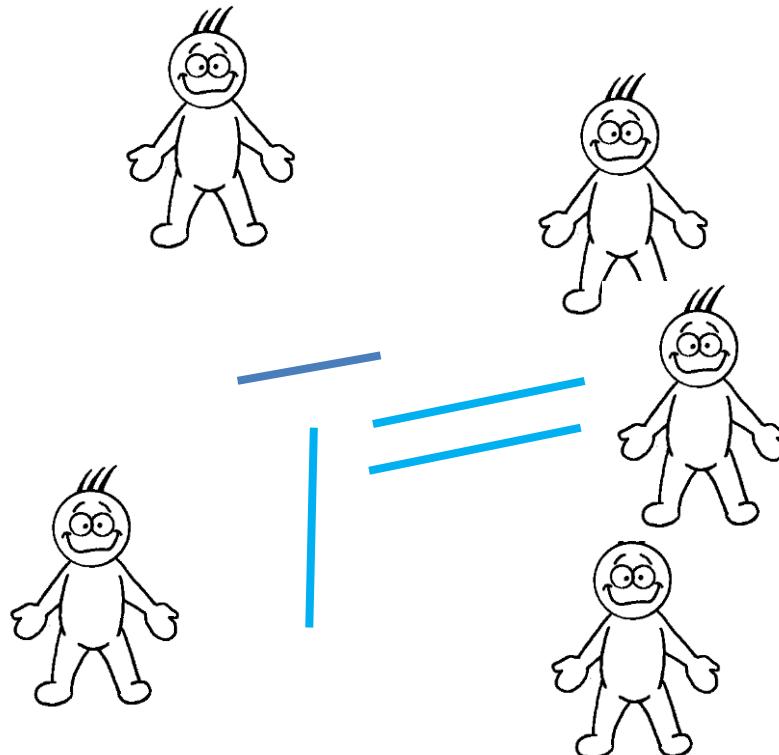
Source FRAPORT

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Big Steps



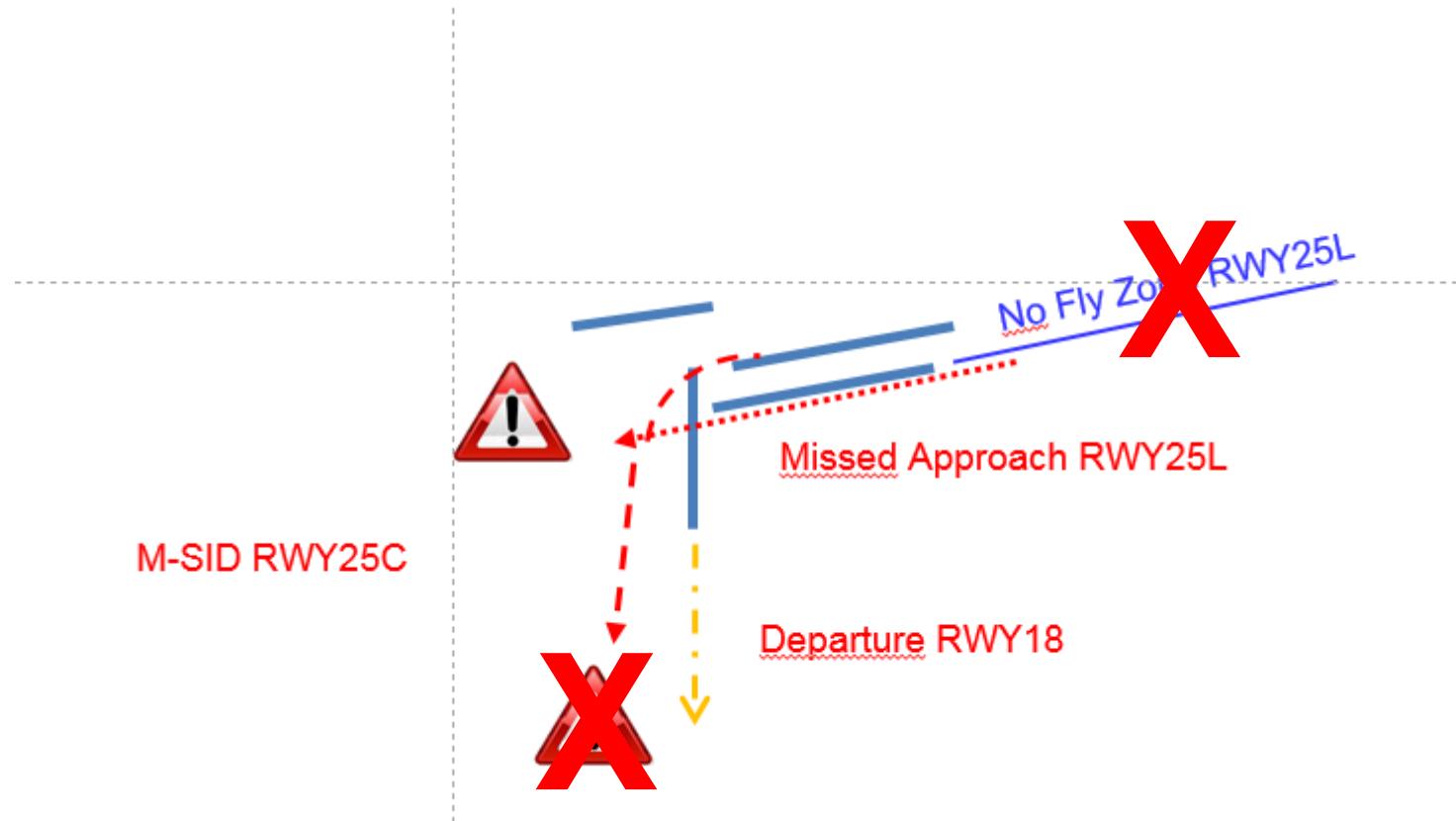
Big Steps



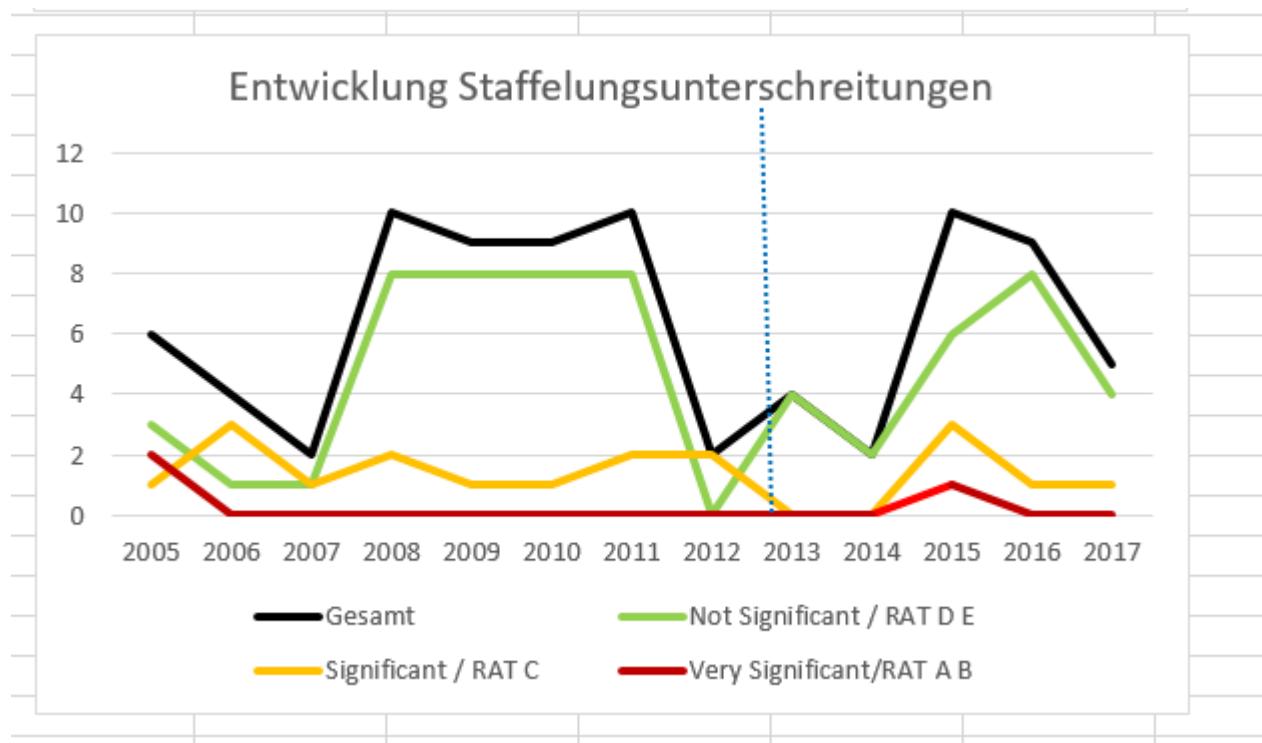
- Workshops with ATCOs
- Workshops with other Towers
- Workshops with Safety Management
- Workshops with local management
- Workshops with Prof. Woods

- More Freedom of decision on a local level
- More defense against outside influences
- Keep complexity in focus with every new idea
- No more fragmented problem solving
- Listen to operators, examine their methods

Big Steps – Future Projects



First Results



What Do We Learn?

According to scientists, by laws of physics
it is impossible that a bumblebee can fly.

The bumblebee does not care. Do you?



Source: „Opel Advertisement“

Thank You for your Attention



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