

Work as Done vs Work as Imagined

Improving Runway Operations from the Car Park

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DFS Deutsche Flugsicherung



UMPARKEN
IM KOPF.DE

What we think, determines what we see. Things
About which we have a preconceived opinion
we rarely see anymore.
However it would be worth taking a detailed look
especially then.

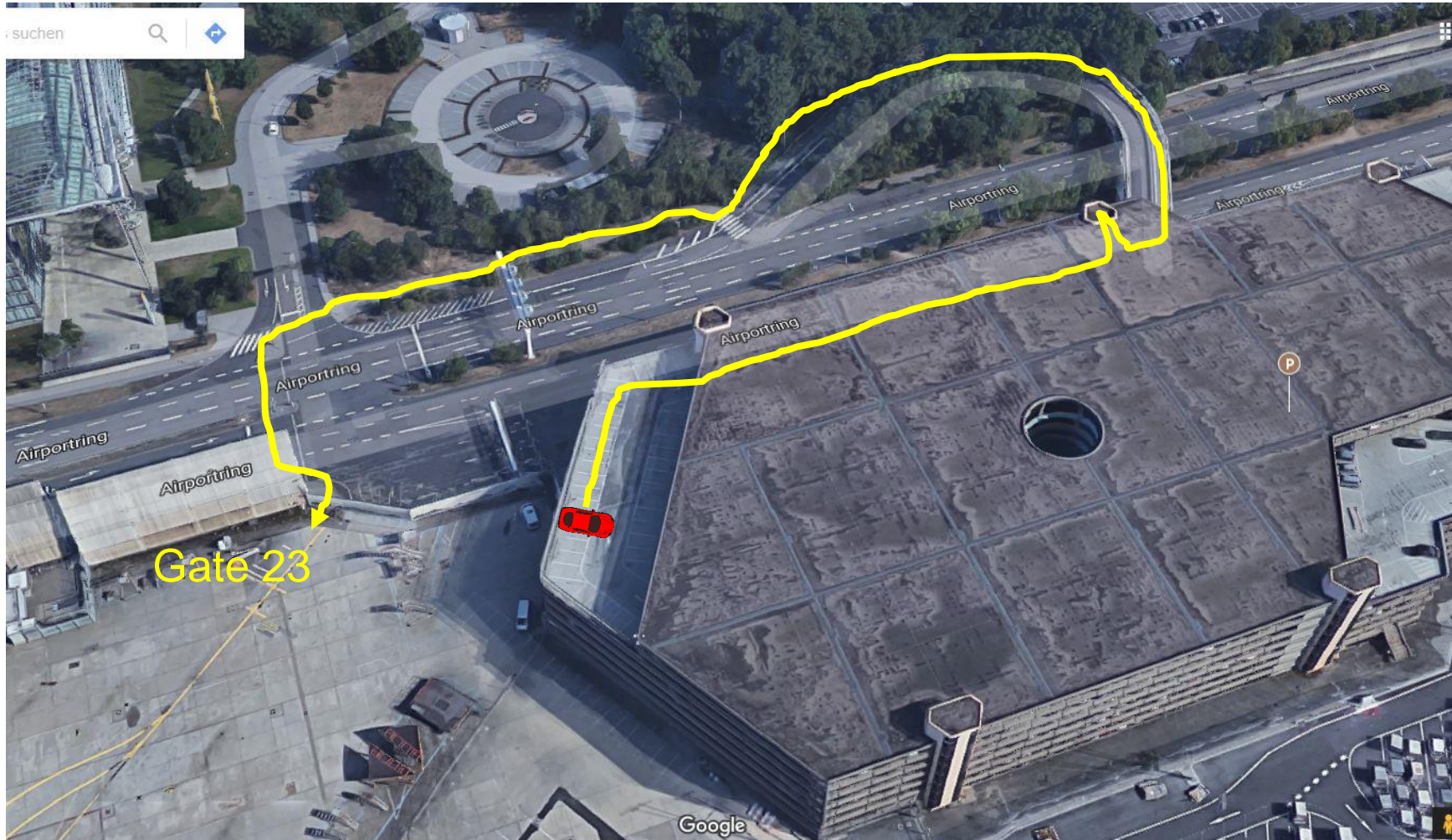
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Prequel



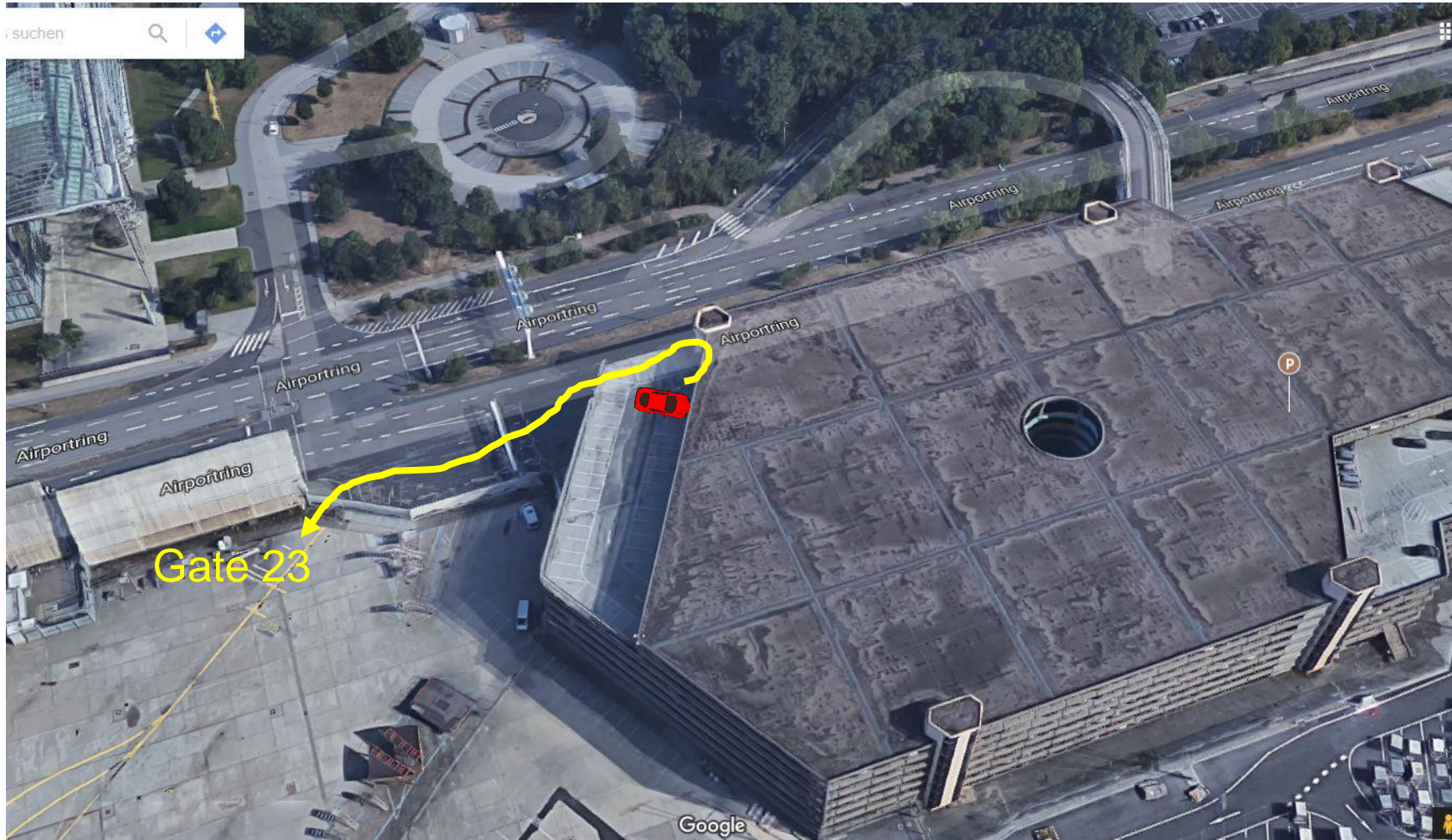
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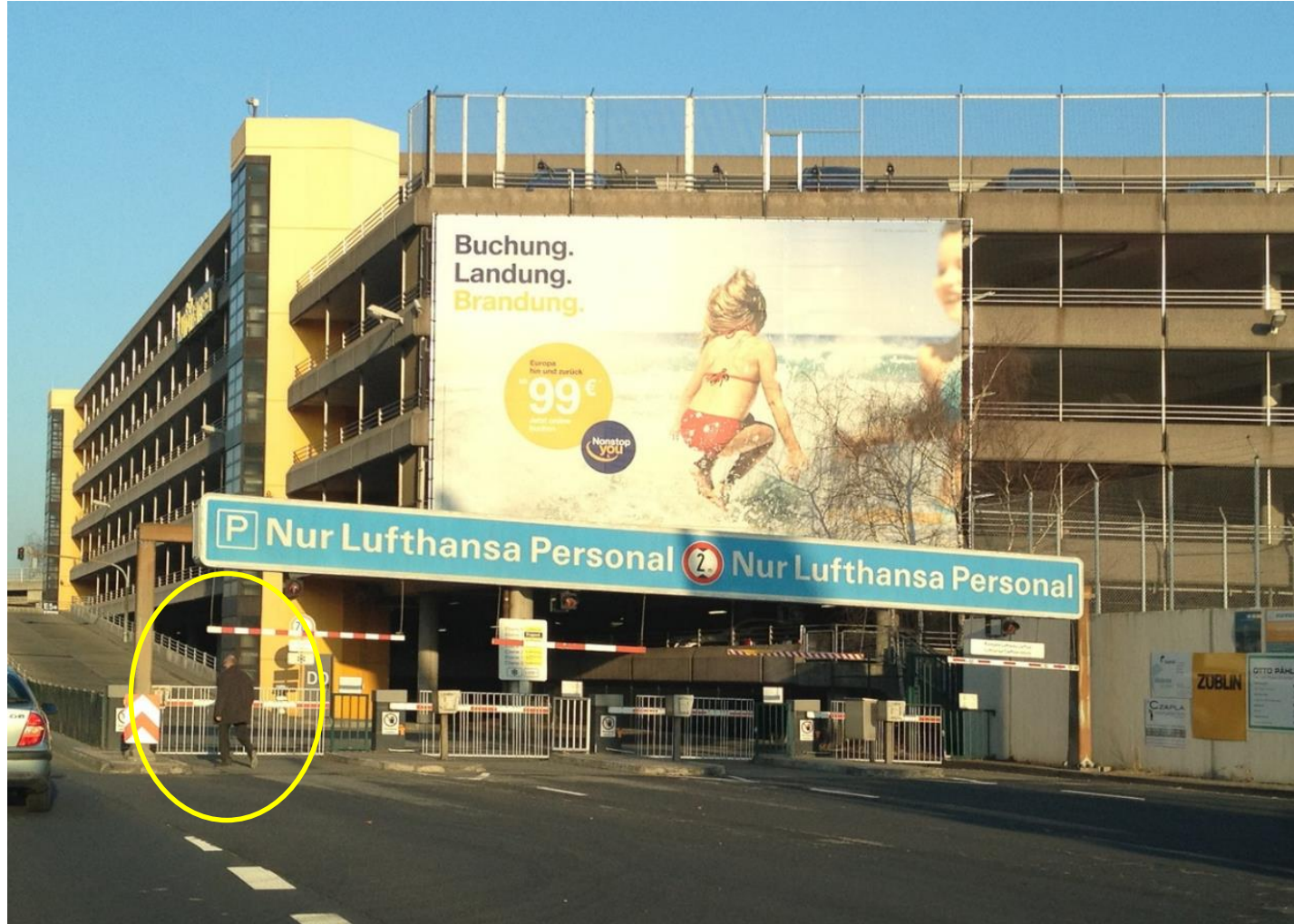
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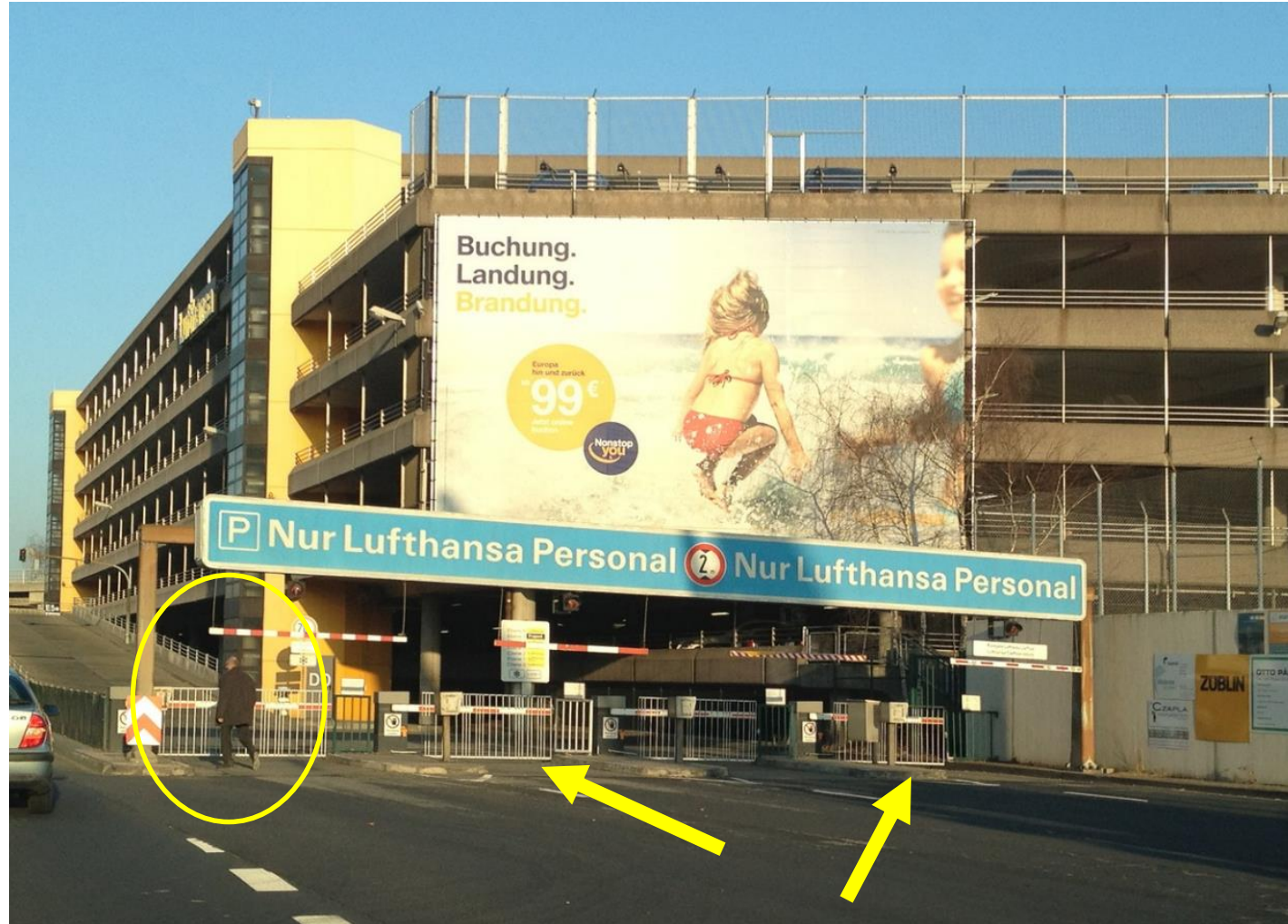
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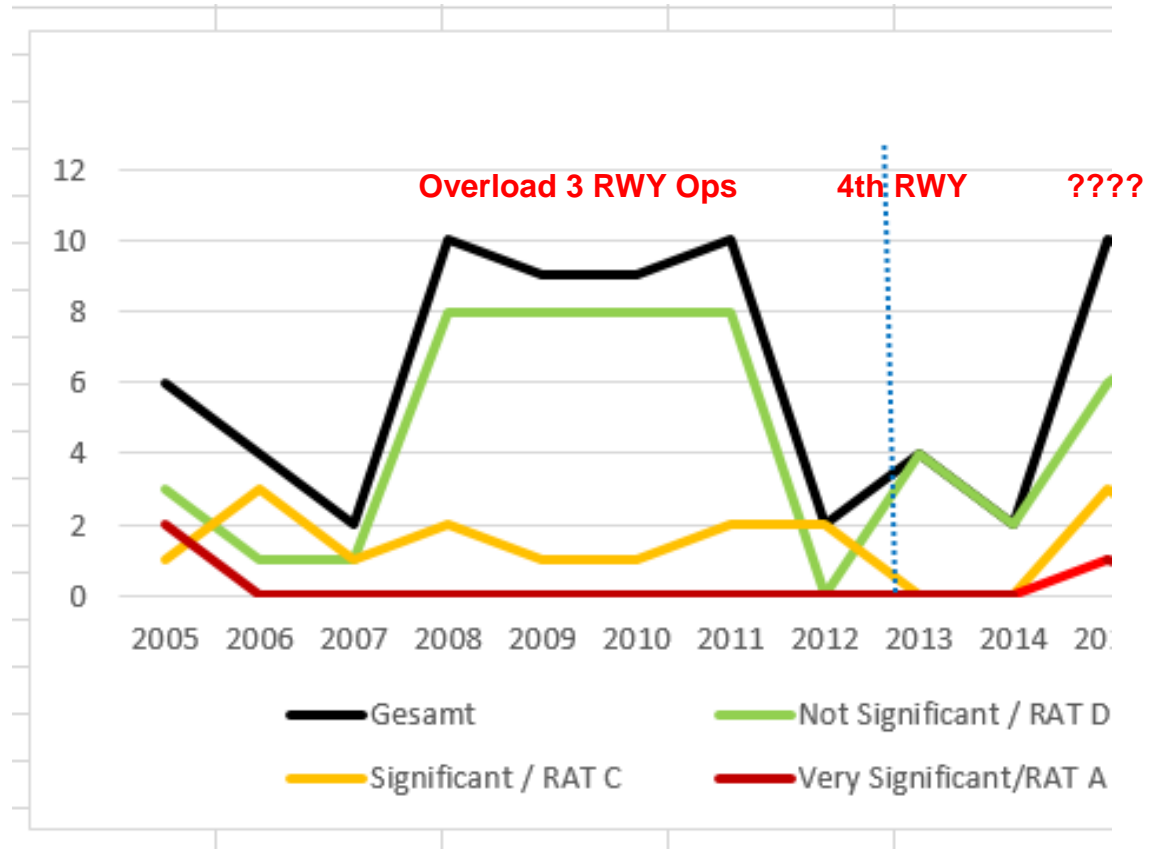
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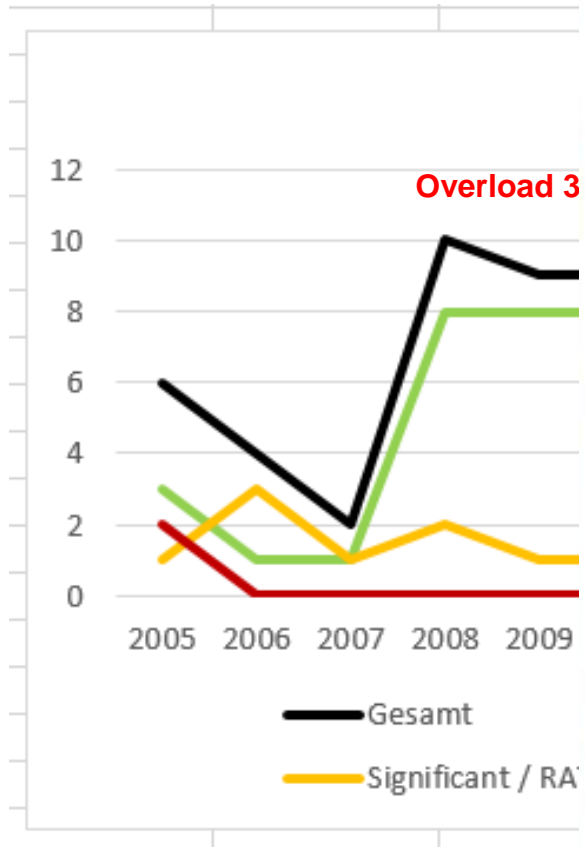
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The Situation



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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

17.11.2015.-
der Lufthansa
Woche zu m
Die Kollegen
die Zeit sinnv
Verfahren tra
Verkehrsaufk
werden könn

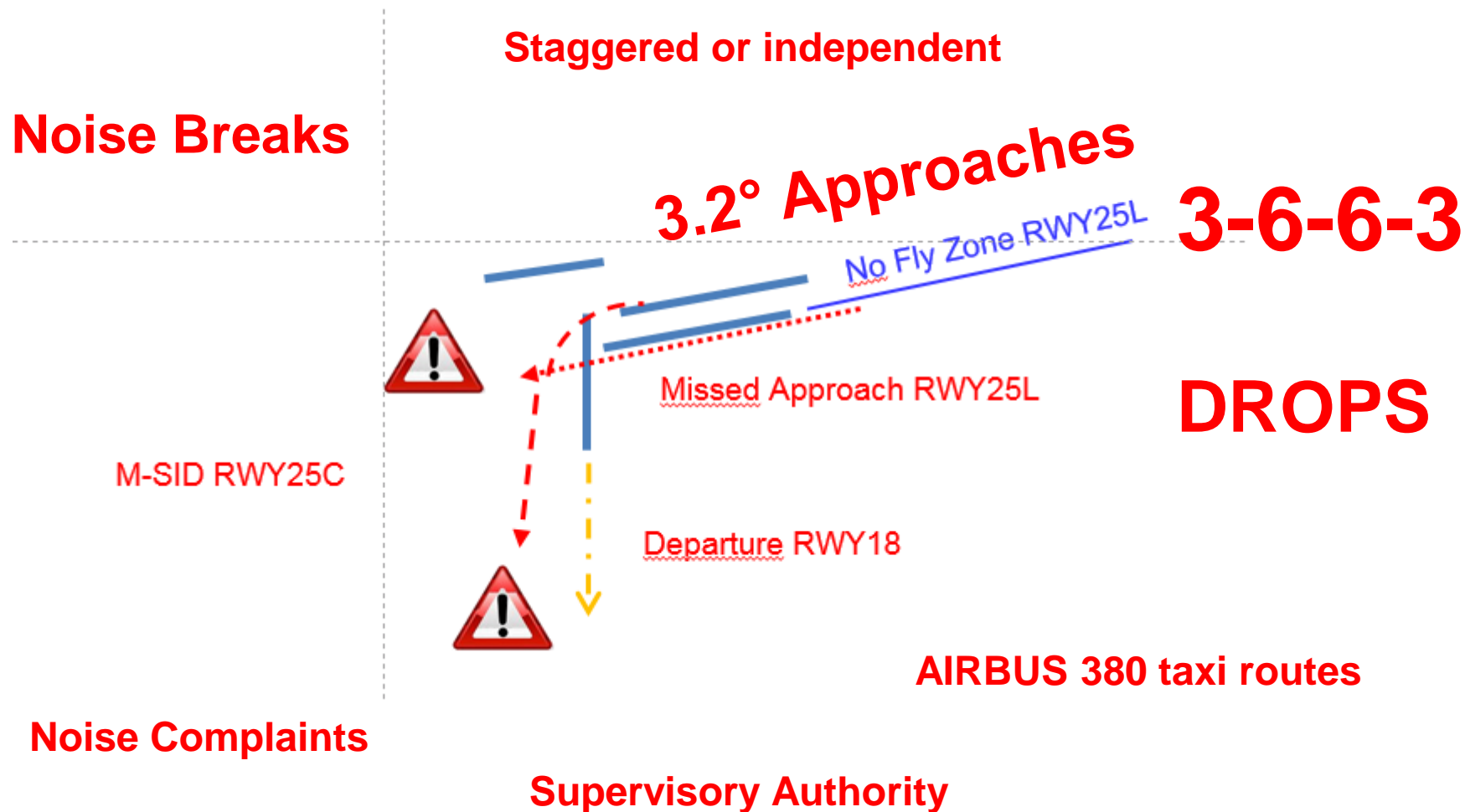
Die Frankfurt
anderem das
mode trainie
Landungen a
heutigen Bet
verfahrensbe
geworden ist
dieser Profici
beispielsweis

The Situation

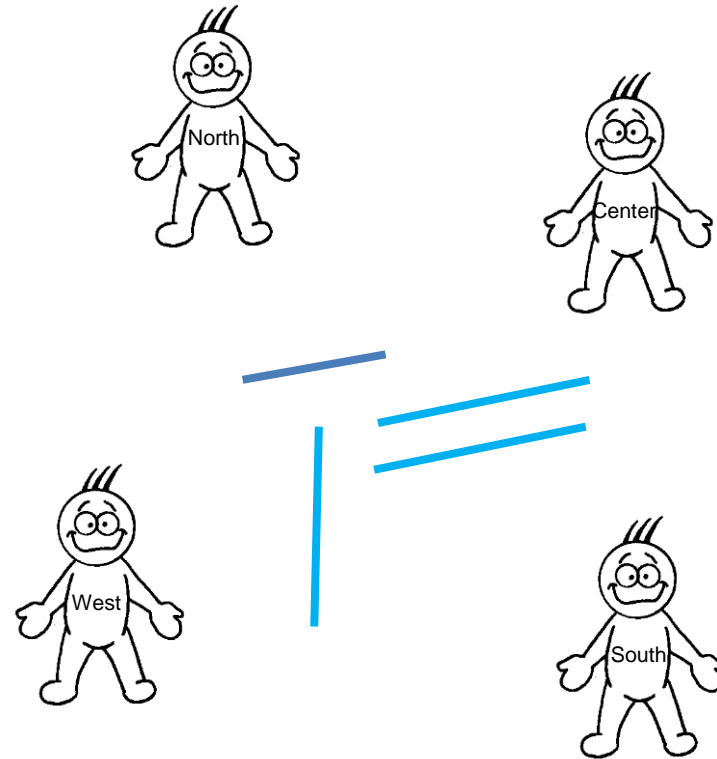


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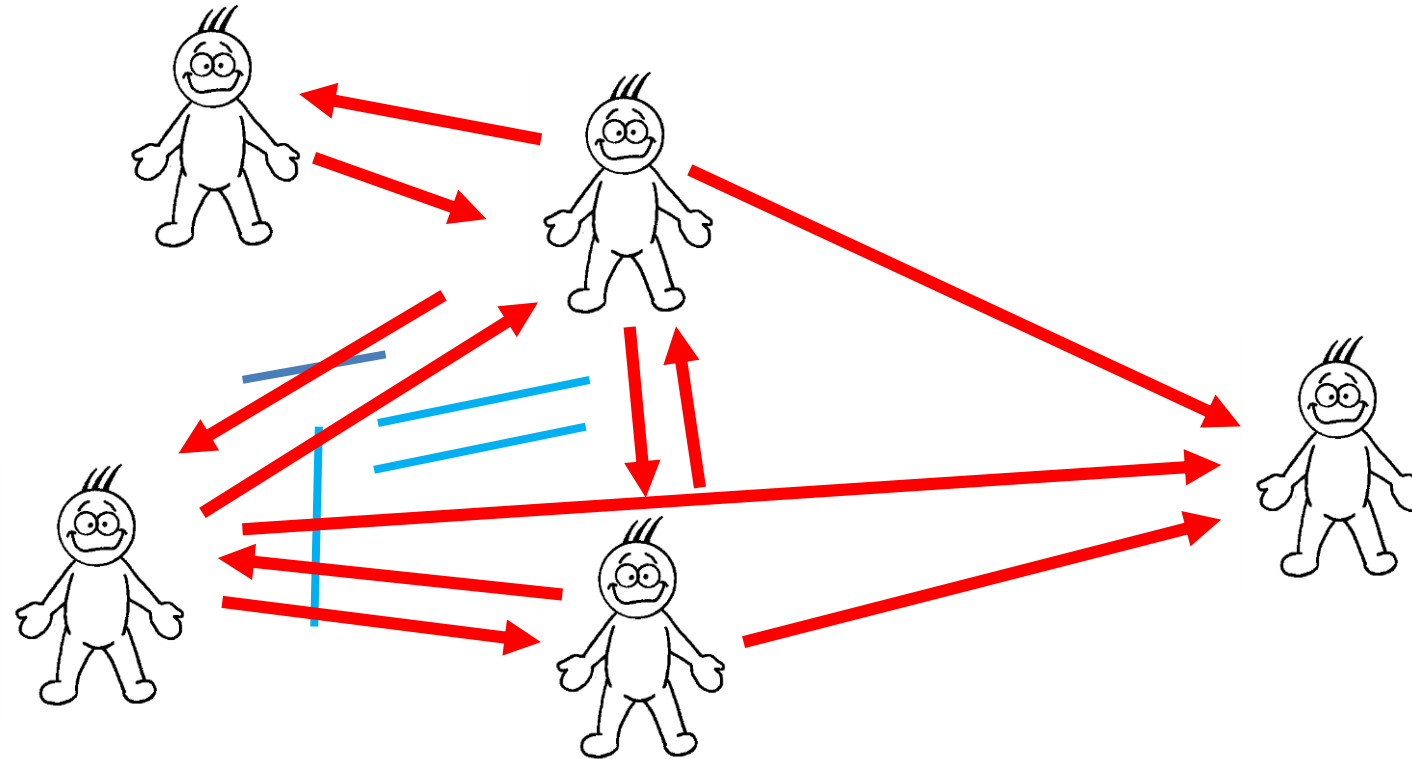
The Situation



Coordination in the event of unforeseen events



The Situation



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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

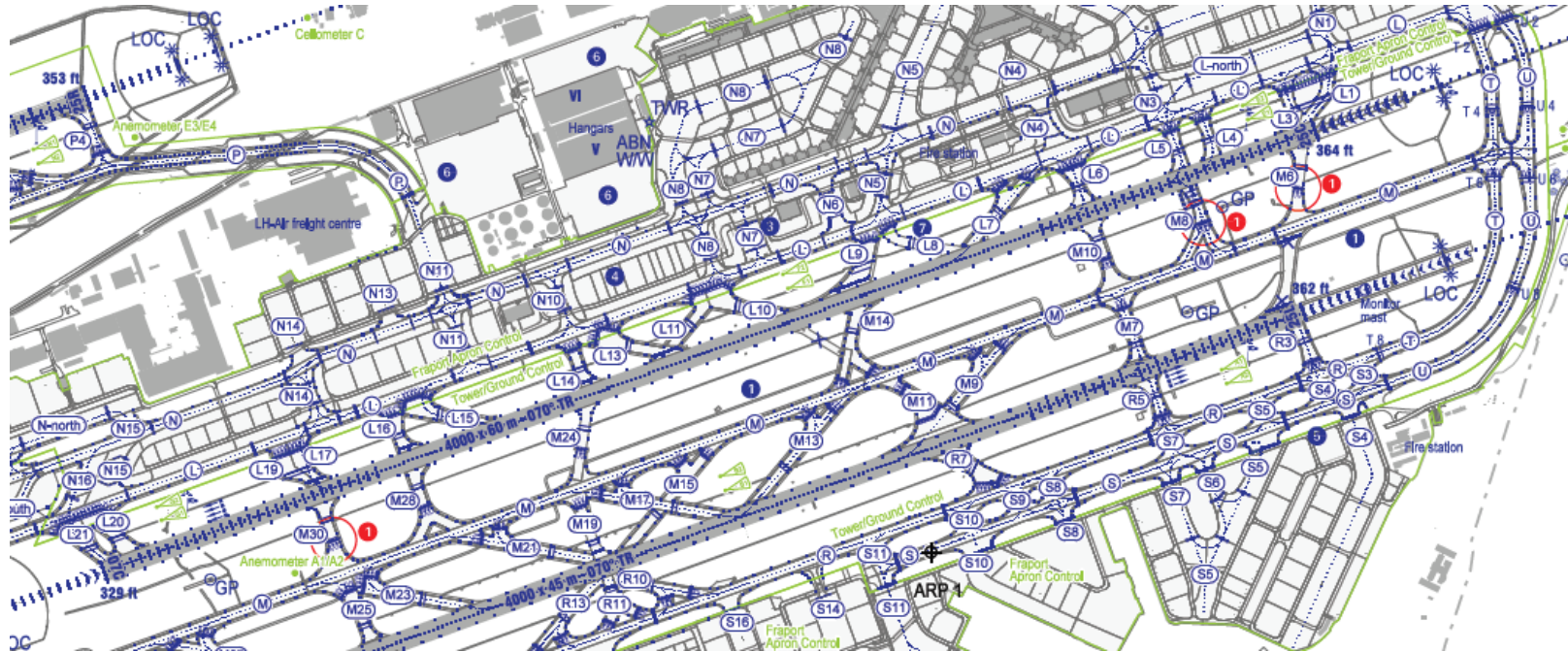


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Small Steps

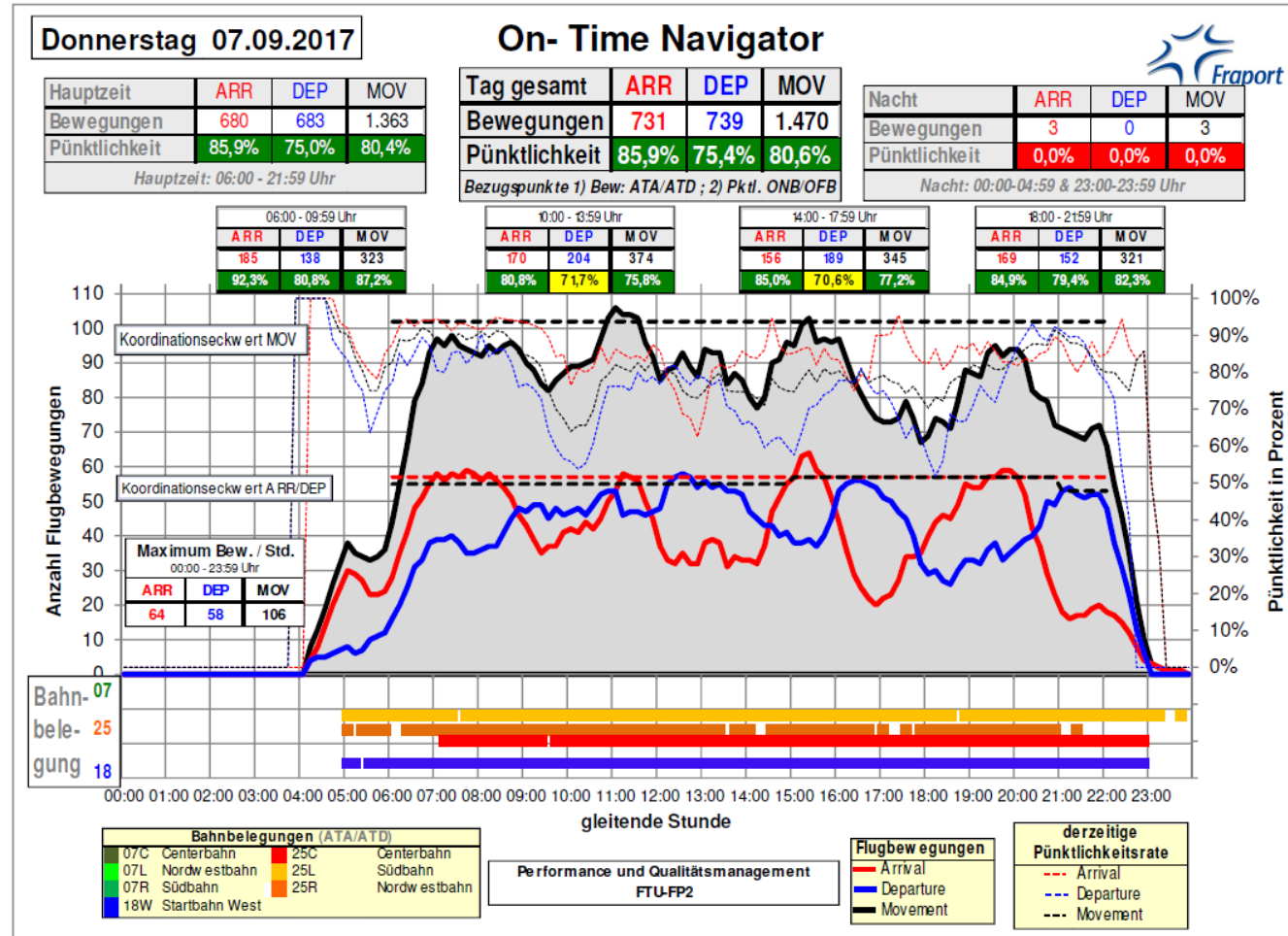
- You may let aircraft depart if they cannot follow the SID if you tell them to keep visual reference to the ground
- You may swing over aircraft in order to avoid the no fly zone
- There are no more MDIs
- Heavy Aircraft may depart from intersections
- Feel free to do short term coordination with your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

Big Steps



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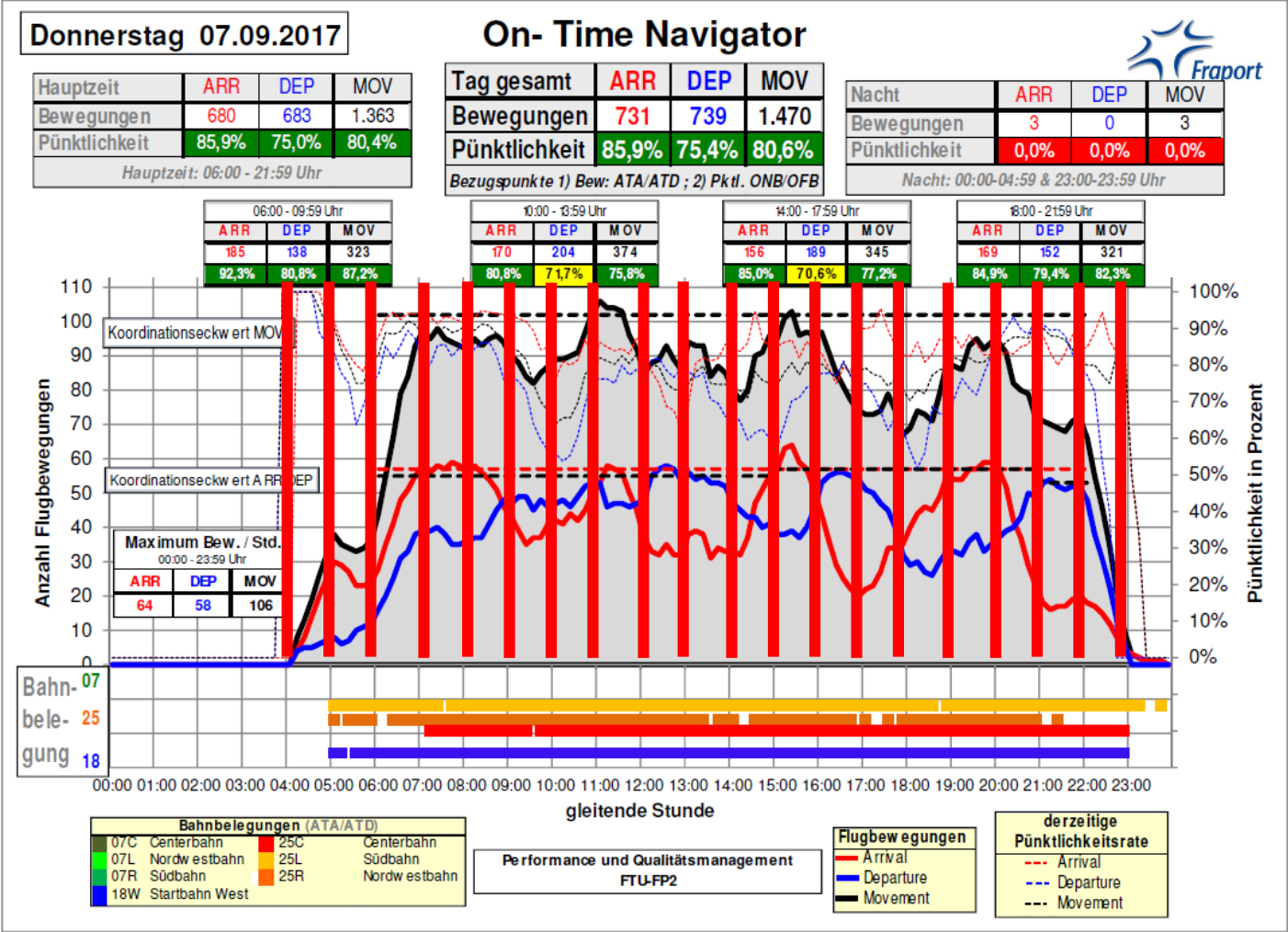
Big Steps



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Big Steps

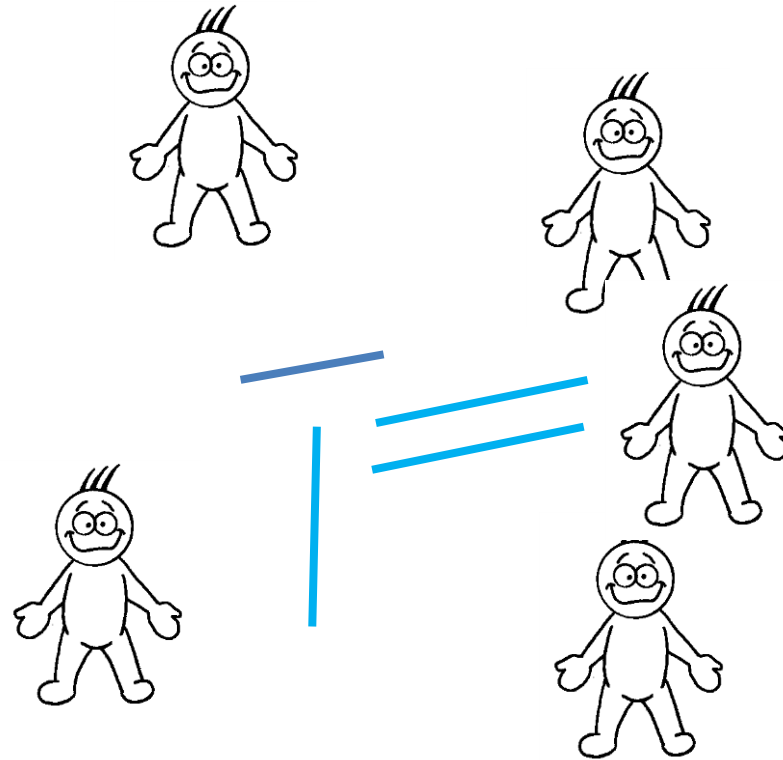
YES
NO
YES
NO
YES
NO
YES



Source FRAPORT

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Big Steps



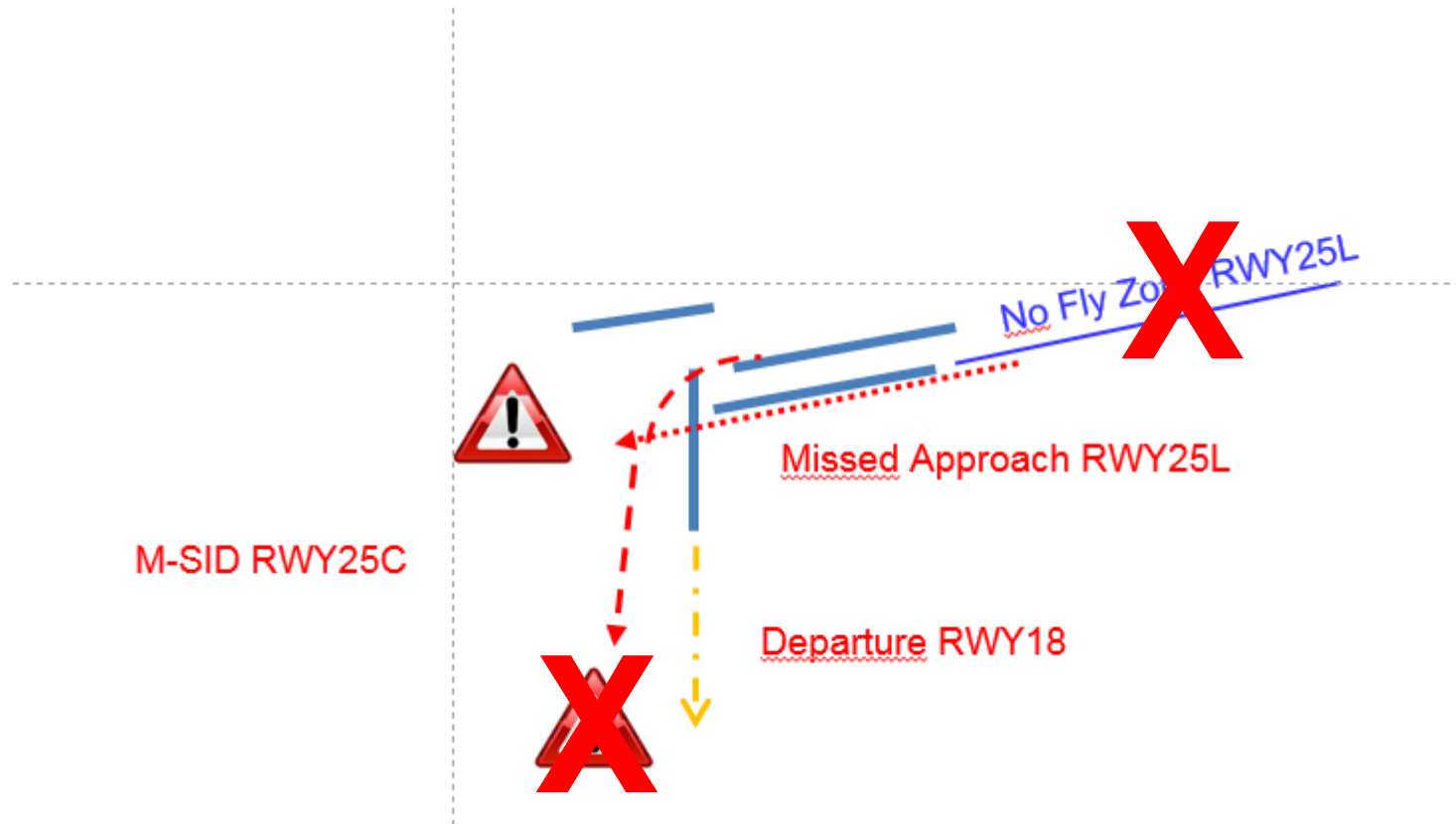
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Big Steps



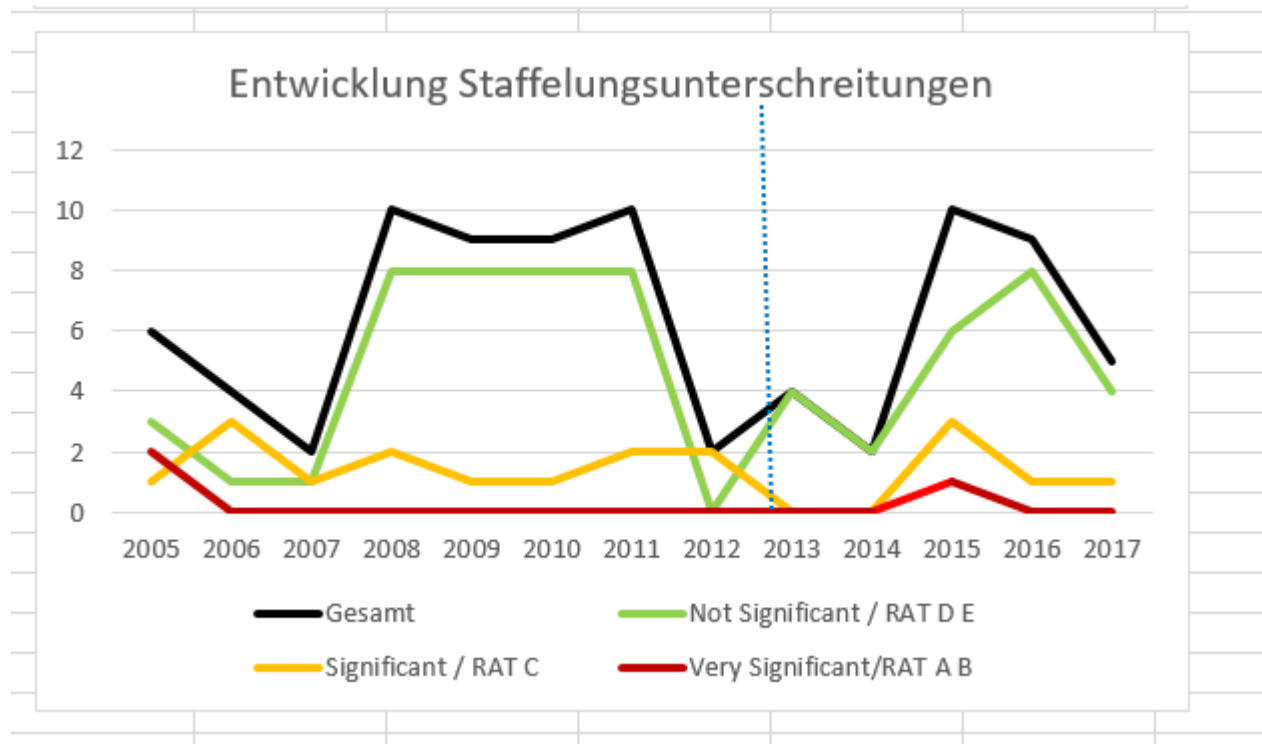
- Workshops with ATCOs
 - Workshops with other Towers
 - Workshops with Safety Management
 - Workshops with local management
 - Workshops with Prof. Woods
-
- More Freedom of decision on a local level
 - More defense against outside influences
 - Keep complexity in focus with every new idea
 - No more fragmented problem solving
 - Listen to operators, examine their methods

Big Steps – Future Projects



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First Results



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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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