

# CE 474 – Class 18

October 5, 2015

# Sao Paulo: A city with 180km traffic jams

By Paulo Cabral  
BBC News, Sao Paulo



# For next time...

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7

## **Class 18 (10.05)**

Discuss: A36

Homework (due 10.07):

- Read: Chapter 7 overview
- Read: A39
- Do: A39 CTQ

Homework (due 10.08):

- Complete: Revised A36

## **Class 19 (10.07)**

Mini-lecture/CTQ: A39

Do/Discuss: A41, A42

Homework (due 10.08):

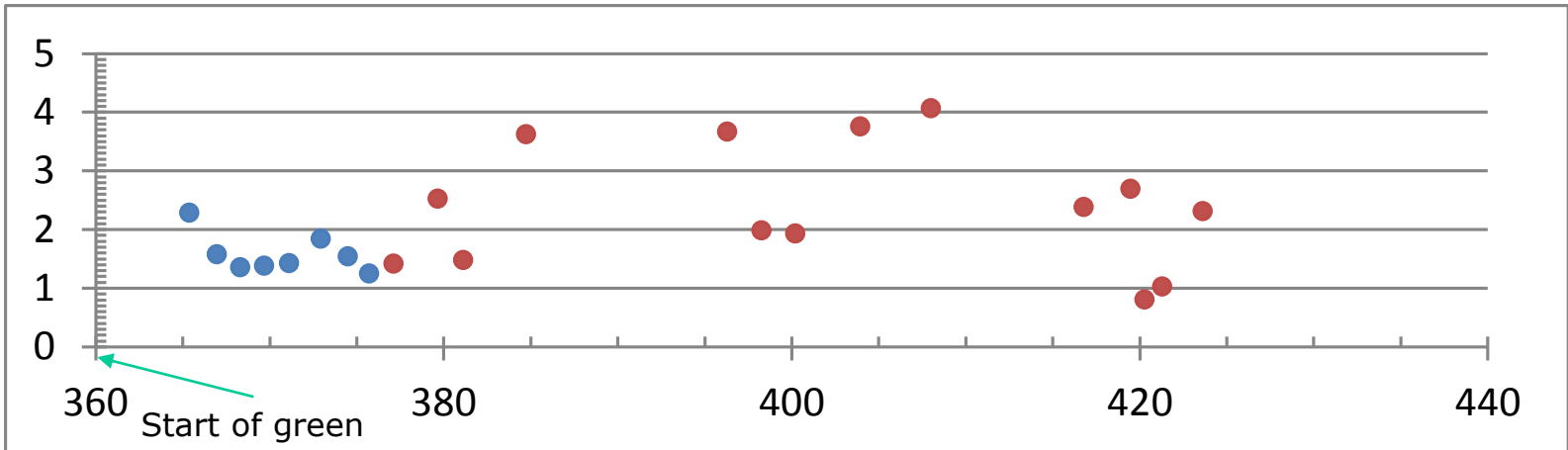
- Complete A41, A42
- Prepare: A43

## **Class 20 (10.08)**

Do/Discuss: A43 (due 10.12)

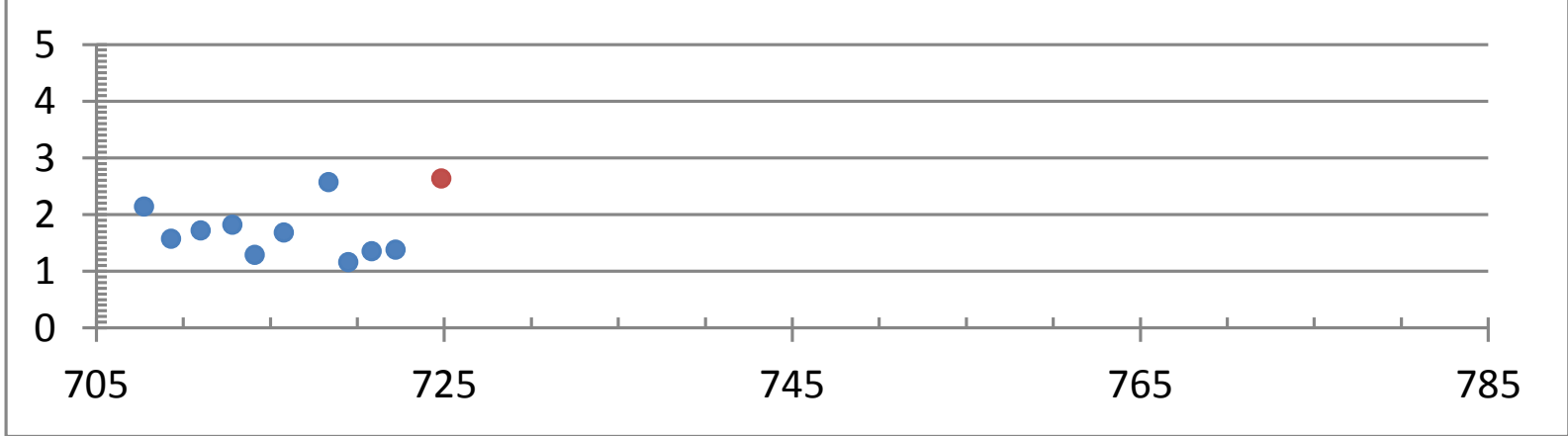
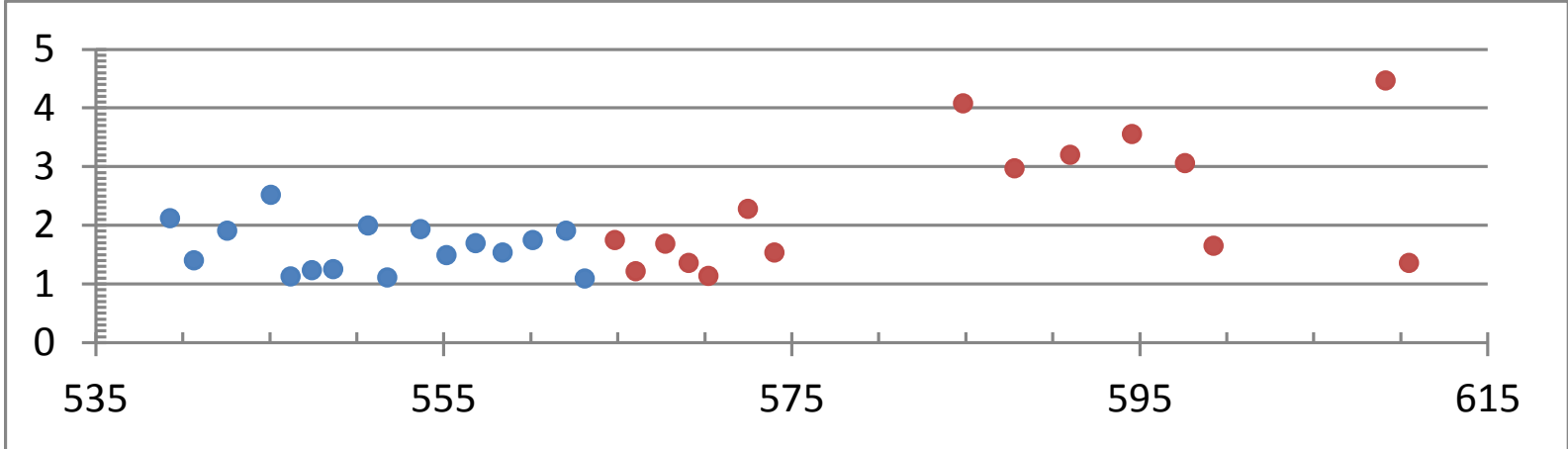
Homework (due 10.12):

- Read: Chapter 8 overview
- Read: A45
- Do: A45 CTQ

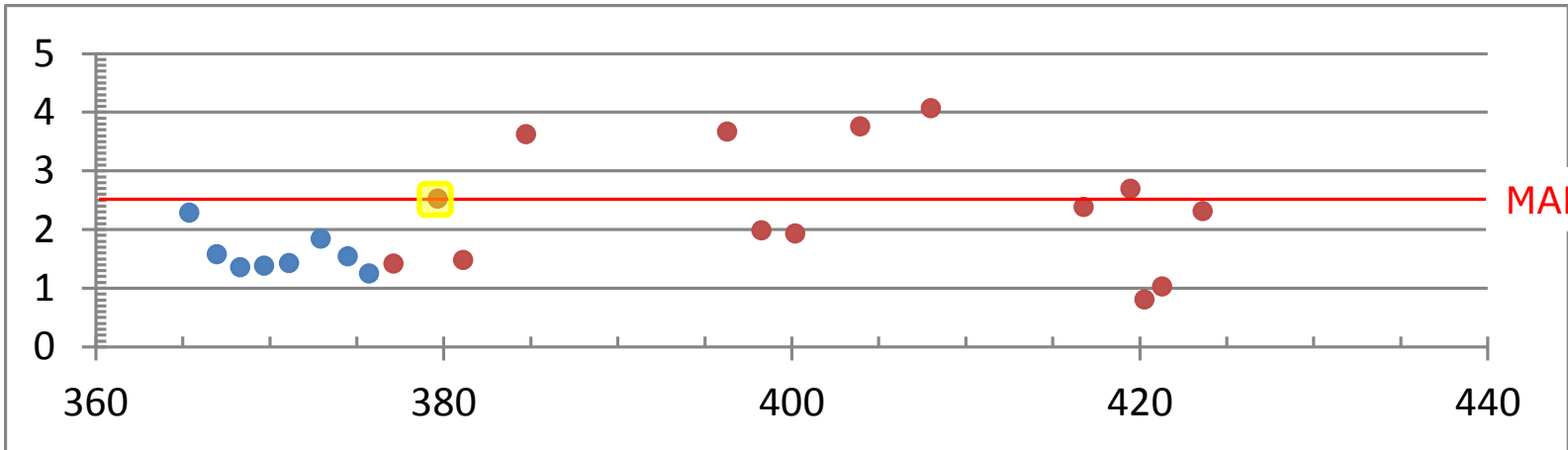


Departing queue ●

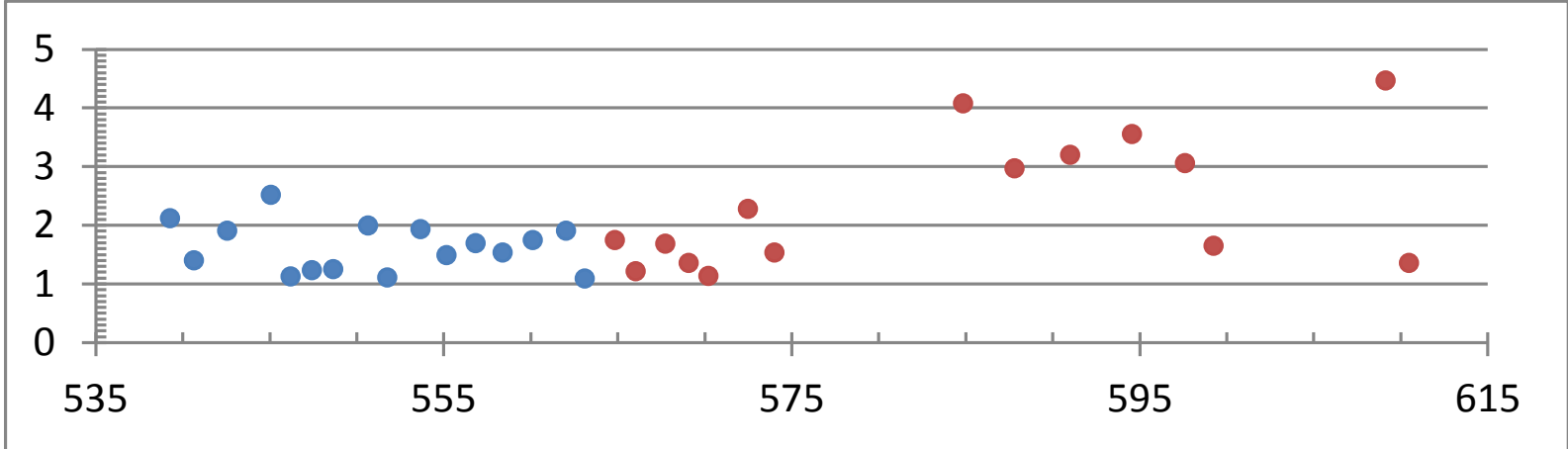
After queue has cleared ●



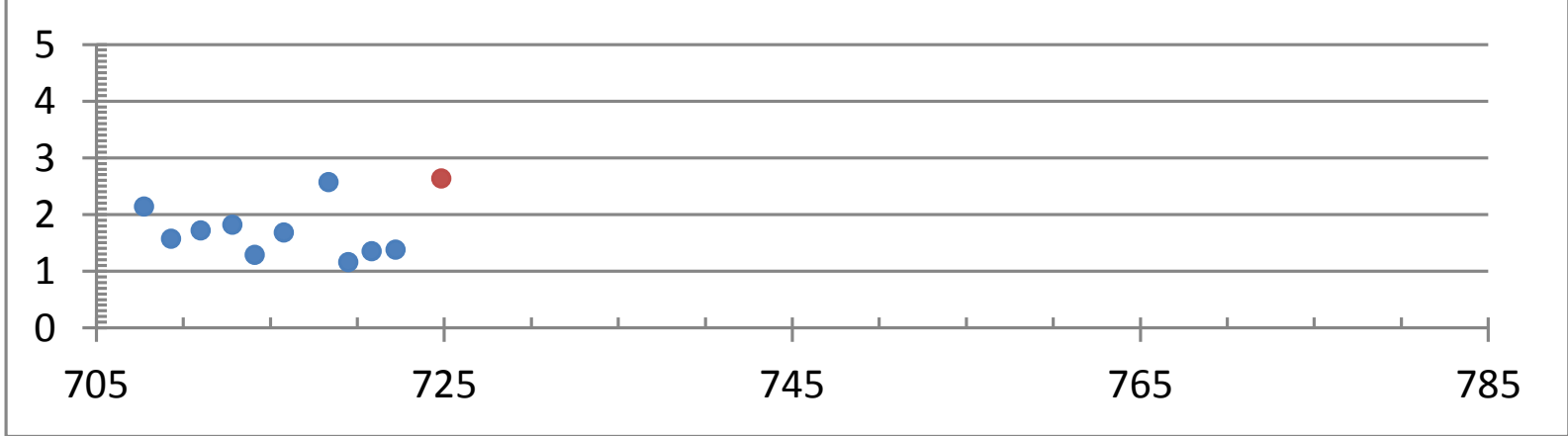
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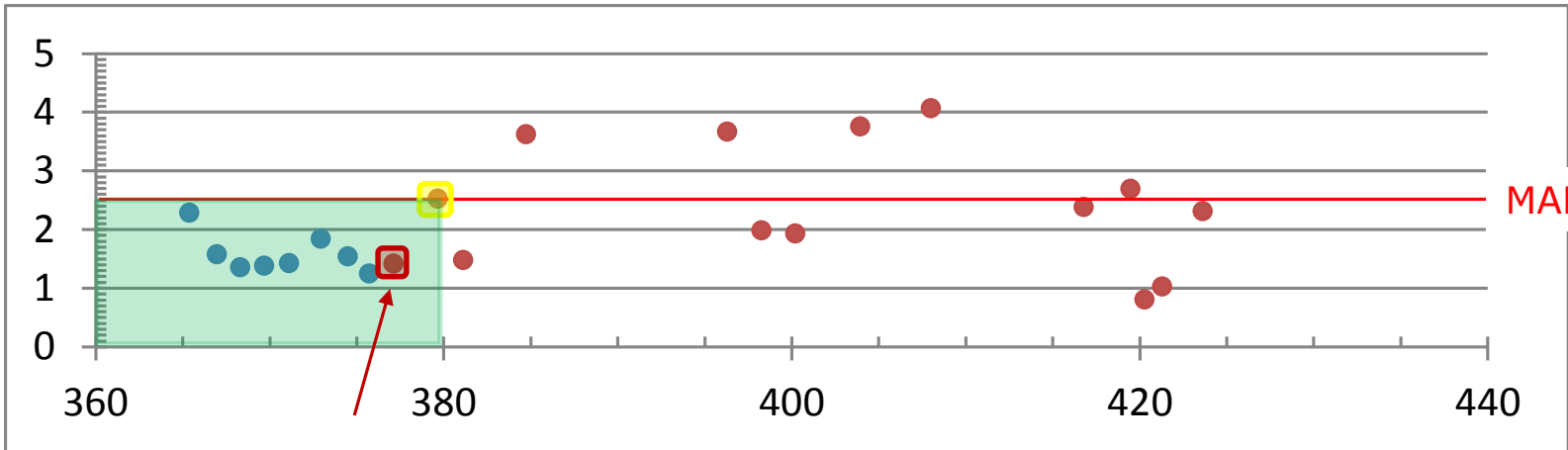
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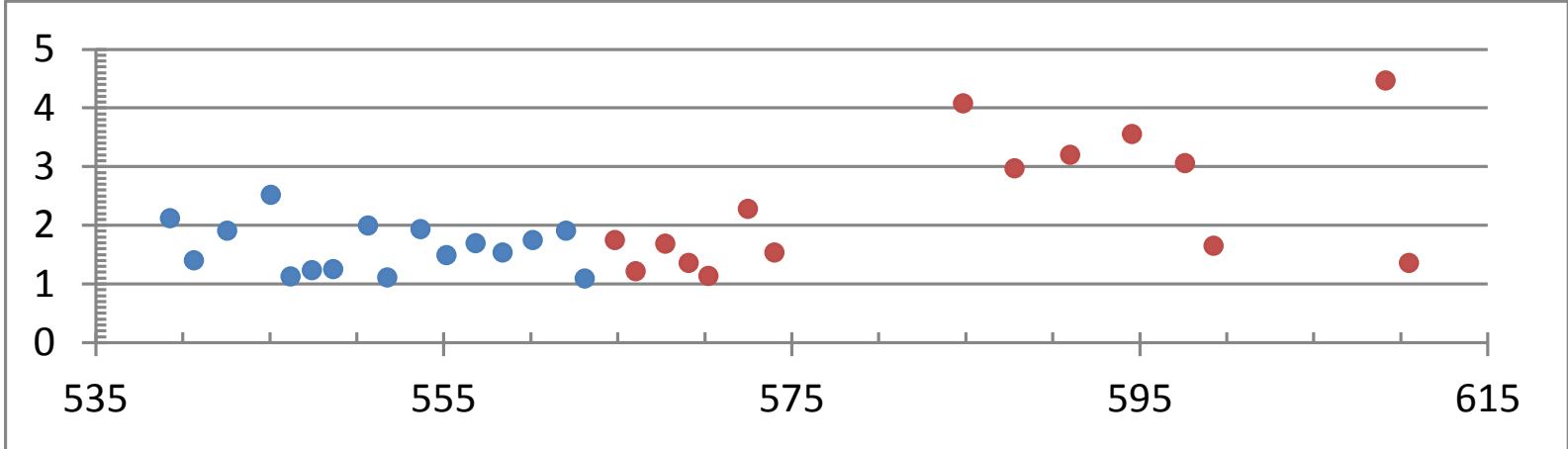
→

Time

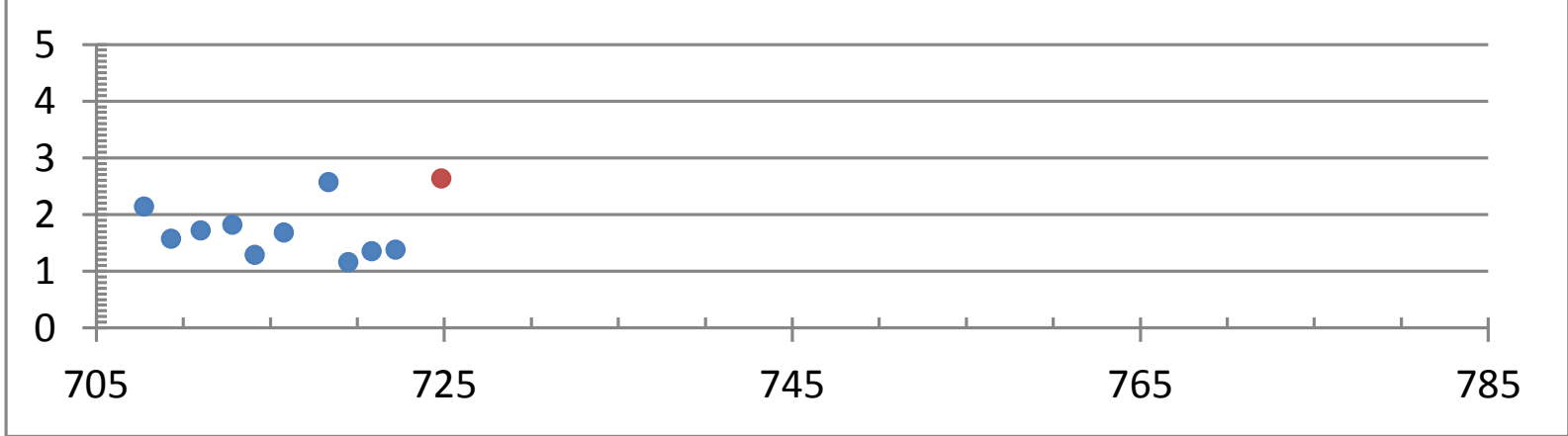
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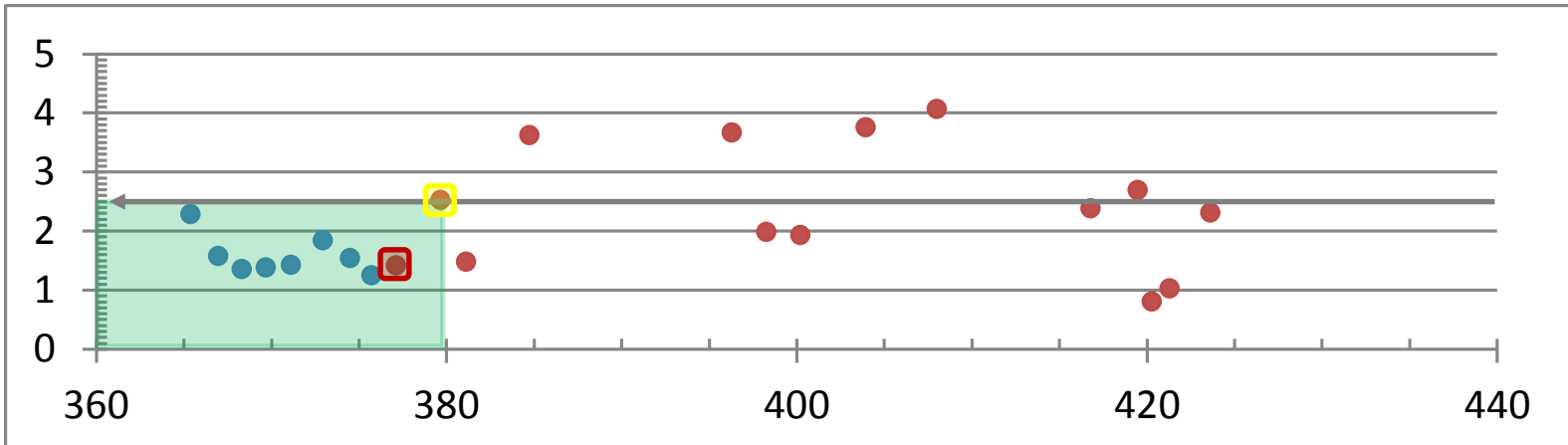


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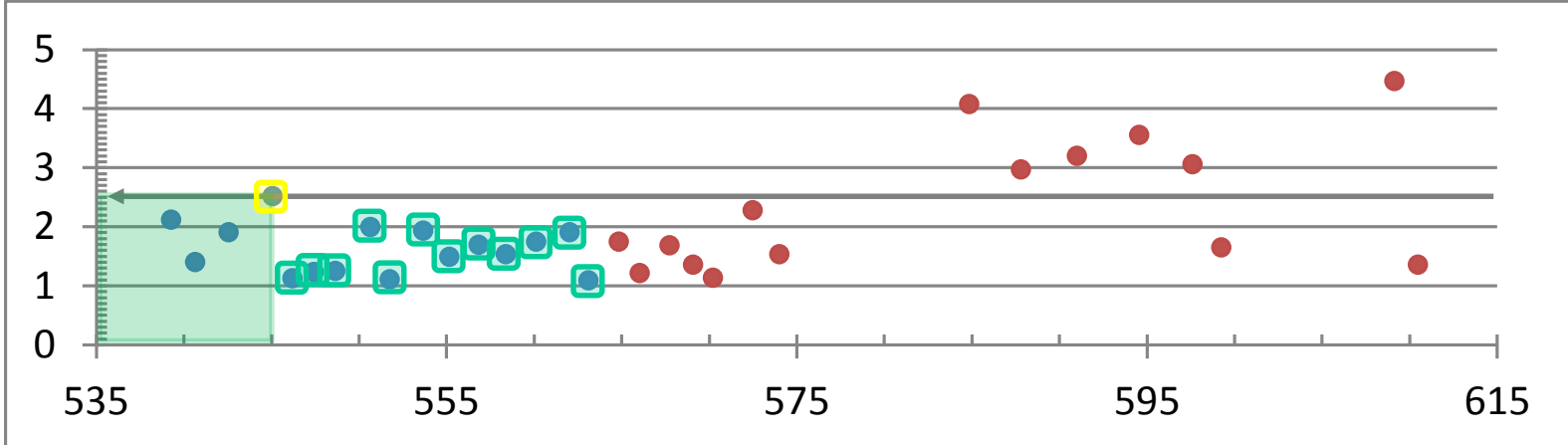


→ Time

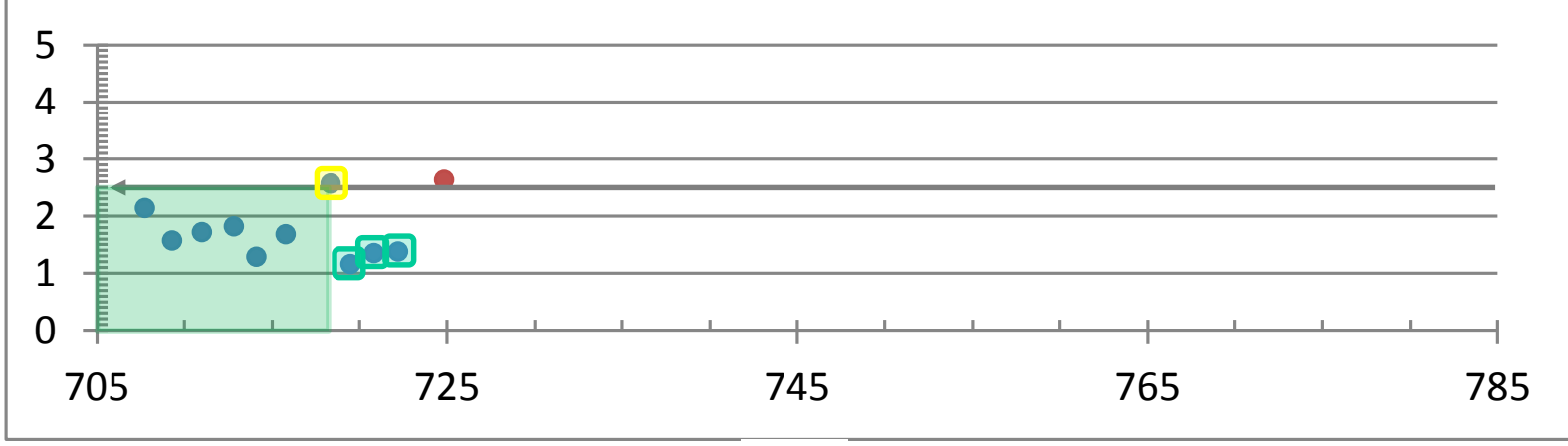
↑ Headway, sec



■ **Type 2:**  
Green extends too long

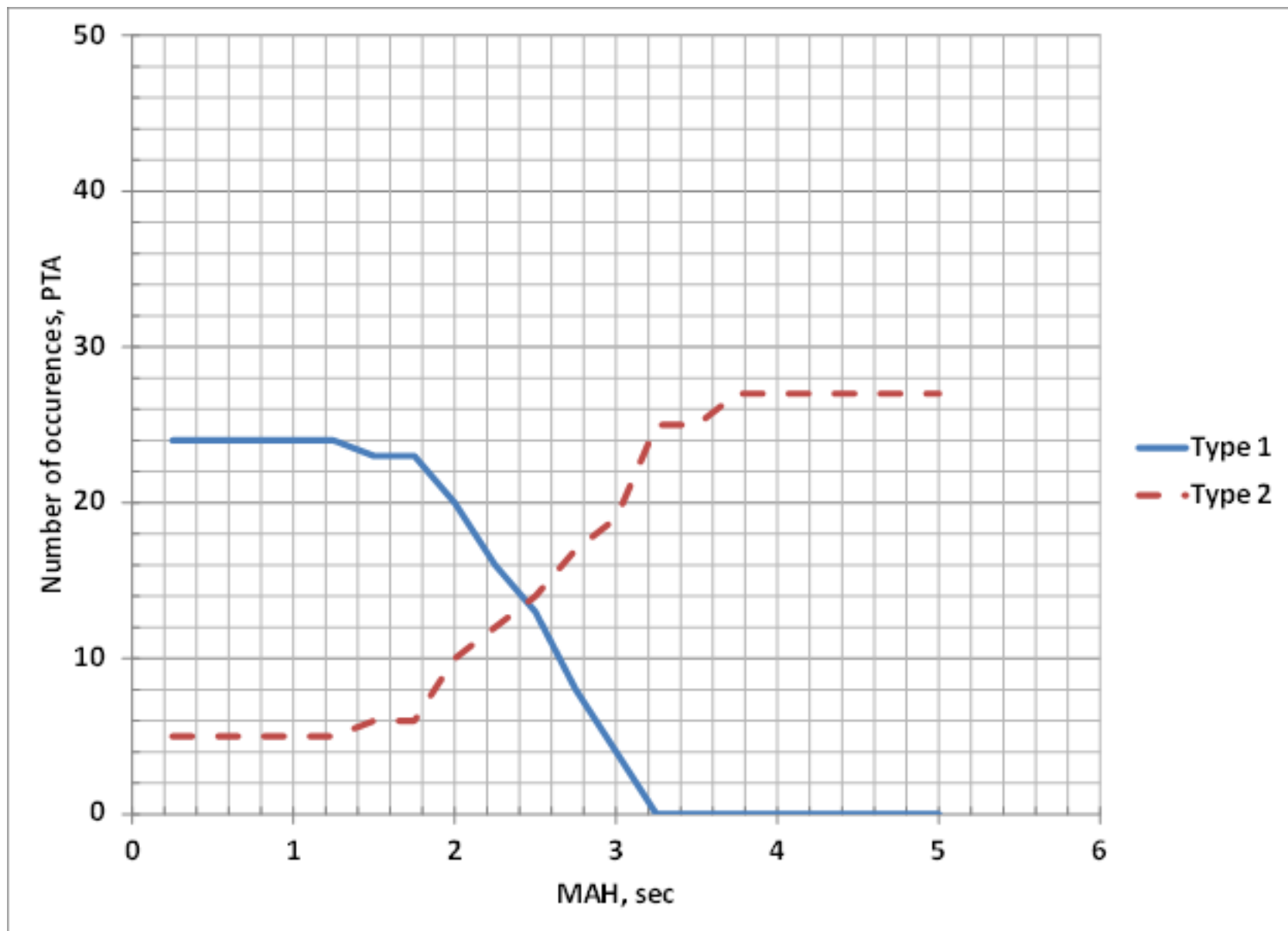


■ **Type 1:**  
Green ends too early

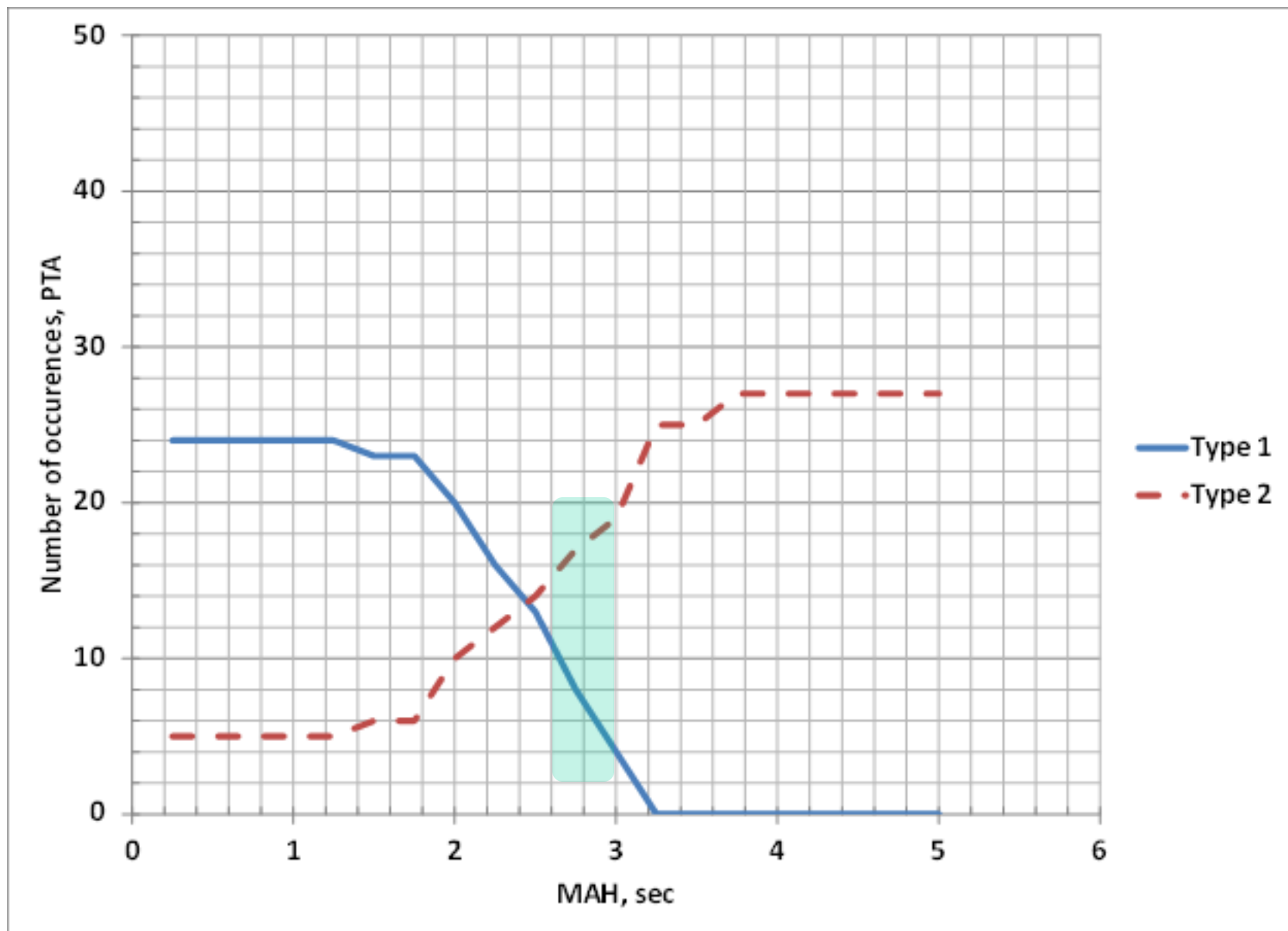


■ **Type 1:**  
Green ends too early

→ Time







# Outcomes from A36

1. Results of phase termination analysis investigating a range of MAH values
2. Selection of MAH based on desired balance of type 1 and type 2 terminations
3. Passage time computed based on MAH selected and speed study
4. Performance analysis from VISSIM based on new value of passage time (vehicle extension time), minimum green time of 5 seconds, and detection zone length of 22 feet (numeric data and visual)

Team 1	Team 2
<b>A2 (SH /Warbonnet)</b> Morris Cornwell Keller	<b>C6 (SH 8/Line)</b> Saras Skinner
<b>C5 (SH 8/Line)</b> Larrea Cupps	<b>D7 (US 95/Sweet)</b> Scheel Kury Geibel
<b>B3 (Palouse River Drive )</b> Hartzell LeCates Landa	<b>G13/14 (SH8/Line)</b> Ryu Alrashdi Bernauer Taylor-Stiffarm
<b>E9/10 (SH 8/Blaine)</b> Bode Hale Dashti Maffey	<b>F12 (SH 8/Warbonnet)</b> Almakrab Crow Elmore

## **Instructions:**

1. Gather your results (A36 spreadsheet) and review deliverable requirements
2. Meet with your "review" team
3. Present and share your results with "review" team
4. List suggested changes to work of "review" team
5. Identify needed changes to your A36 work and results based on review
6. Submit revised version of A36 by Thursday, 800 am to BBLearn

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