



# WP3 – G1 Paris – St Ouen

## Working steps

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openETCS@ITEA2 Project

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# **WP3 - G1**

## **Analysis and modeling steps**

# G1 analysis and modeling steps

## Step 1 (end of january – beginning of february)

### **EBD / EBI curves in TSM, CSM and RSM**

- only one danger point
- one given MRSP curve with 3 or 4 steps and at least 2 targets
- 3 A\_safe constant values (0-50 / 50-100 / > 100 km/h)
- V\_release = constant
- Build up times = constants
- no GUI, no SBD
- commands: Emergency Brake and TCO
- display: speed target, distance target, supervision mode (TSM, CSM, RSM), estimated speed

# G1 analysis and modeling steps

## Step 2 (march → first demonstrator)

### **SBD / SBI1 – SBI2 – FLOI – W – P – I curves**

- Add EOA with SBD curve
- command: Service Brake
- matching DMI

# G1 analysis and modeling steps

## **Step 3 (june)**

### **Deceleration and build-up times calculation**

- gradient
- slippery rail
- matching DMI

## **Step 4 (if needed)**

### **Options**

Calculate  $V_{\text{release}}$

Calculate GUI

LOA, SR limit, specific MRSP