

# **Workshop for EG Partners**

## **On WP2**

### **NMPC and Linear**

### **Programming for ASRP**

### **Procedures and Implementation**

# Agenda:

- Introduction:
- Model Predictive Control
- Motivation to use NMPC for ASRP
- The Structure of Process Model
- Process Model Calculation
  - Footprint
  - A – matrix
  - B – matrix
  - C – matrix
- Break
- The Structure of Excel-files
- Running the NMPC Script for 2 Processes
- Disadvantages of NMPC
- Linear Programming (Simplex)
- Motivation to use Static Optimization
- Examples:
  - Production problem
  - ASRP Linear Programming