AGILE OPEN MDO SUITE

INTRODUCTION TO THE VIRTUAL MACHINE

Provided by **DLR** — Institute of System Architectures in Aeronautics

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HORIZON 2020 PROJECTS

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Installation of the Virtual Machine

- Download **ORACLE VM VirtualBox** from *https://www.virtualbox.org/wiki/Downloads*
- Install **ORACLE VM VirtualBox**
- Download the Virtual Machine from *https://www.agile-project.eu/open-mdo-suite/*
- Import the Virtual Machine into **ORACLE VM VirtualBox:**

  → click on **File** → **Import Appliance** → select the Virtual Machine

Virtual Machine additional information:

Operating System: Linux Mint 18.1

Password: **agileEU**

AGILE

Organization of the Virtual Machine

RCE (see **2. RCE quick tutorial.pdf**)

Open MDO Suite main folder (see slide 5)

Sellar Problem and SuperSonic Business Jet examples

VISTOMS (see slide 7)

Presentations and videos to support the user

Open MDO Suite main folder
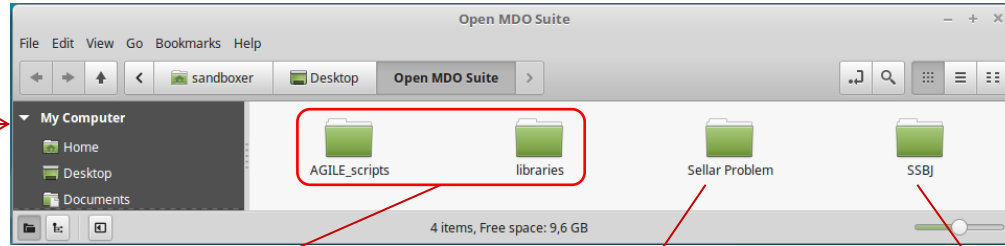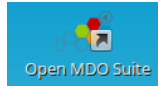
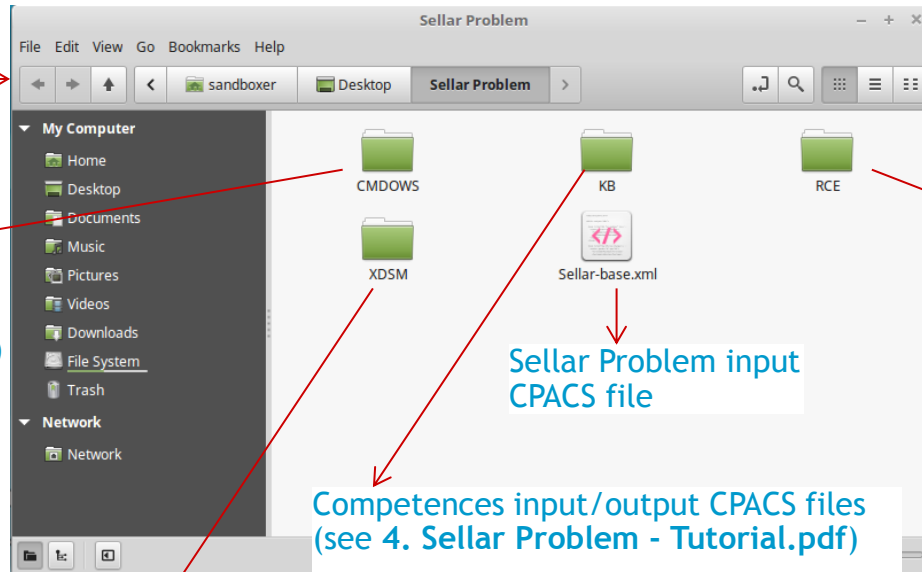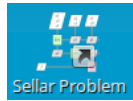Additional scripts and libraries needed to run the tutorials

Sellar Problem example (see slide 6)

SuperSonic Business Jet example

(N.B. Shortcuts on the desktop)

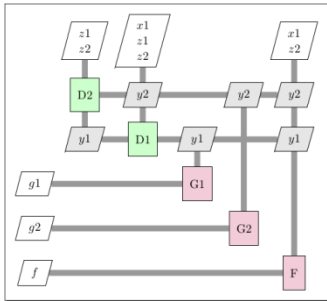# Sellar Problem example (same organization for the SSBJ example)

CMDOWS file that can be inspected and manipulated through VISTOMS (see slide 7)

XDSMs with different MDAO architectures

Competences input/output CPACS files (see **4. Sellar Problem - Tutorial.pdf**)

Sellar Problem input CPACS file

Sellar Problem disciplinary tools integrated in RCE
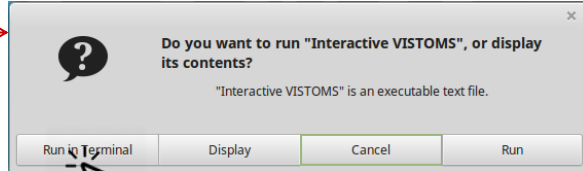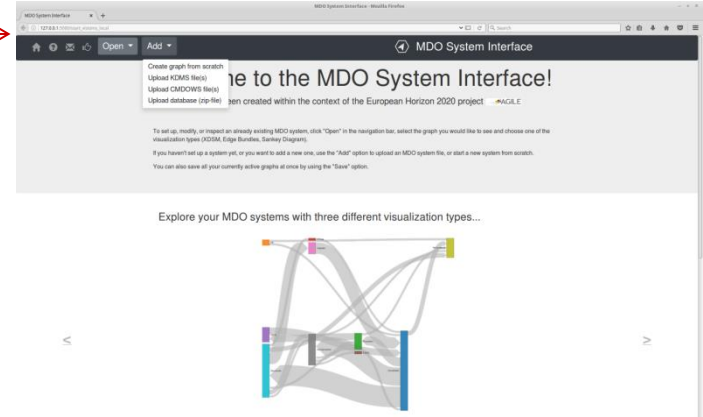
VISTOMS

Click on **Run in Terminal**

N.B. Additional information in **TUTORIALS** folder:

- Video **VISTOMS TUTORIAL.mp4**: Demonstration of VISTOMS capabilities
- Presentation **4. Sellar Problem – Tutorial.pdf**: how to develop an MDO workflow from scratch in VISTOMS