# EABSS Workshop 2023

## Co-Creation of Agent-Based Social Simulation Models

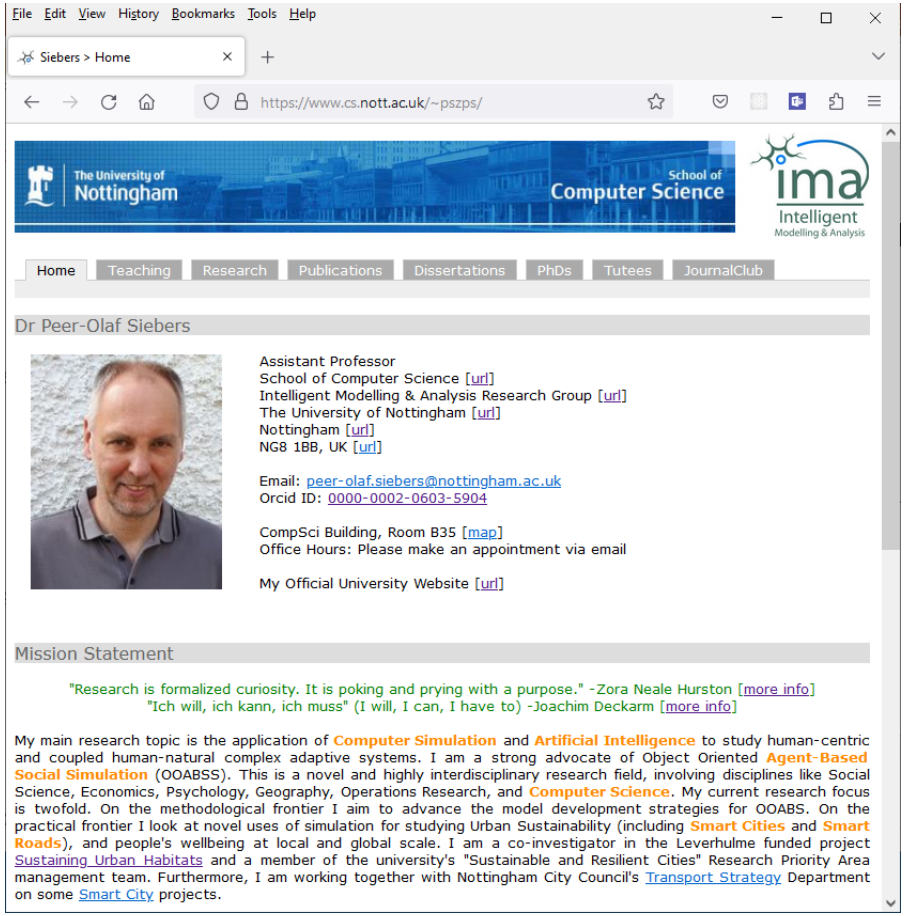
**Welcome**

The University of Nottingham

UNITED KINGDOM · CHINA · MALAYSIA

# Workshop Convenor

- Peer-Olaf Siebers
  - Homepage
    - https://www.cs.nott.ac.uk/~pszps/
  - Email
    - peer-olaf.siebers@nottingham.ac.uk
  - Medical Condition
    - Functional (Dissociative) Seizure

# My Research Interests

- It's all about Agents and Agent-Based Modelling

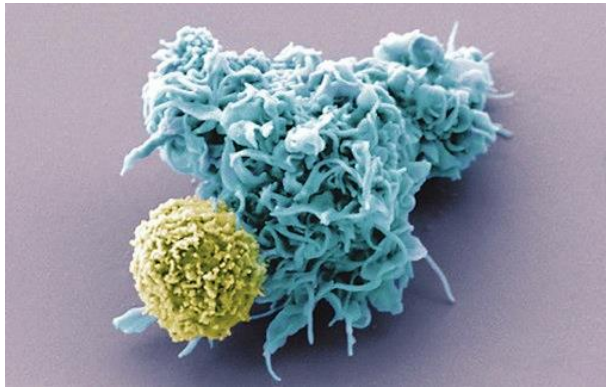
# My Research Interests

- Technical Aspects
  - Engineering Social Simulations and other Multi-Agent Systems
    - Using Software Engineering methods and tools to define all sorts of agents and their interactions

# My Research Interests

- Applications
  - My Mission: Applying OO-ABM to as many fields as possible

    - Business studies (Risk Assessment; CBA; MCDA)
    - Economics (Game Theory; Agent Based Computational Economics)
    - Social Sciences (Political Science; Social Simulation)
    - Engineering (Manufacturing; Urban Modelling; Energy; Transportation)
    - Computer Science (Robotics; Game Development)
    - Operations Research (Healthcare)
    - Systems Biology (Immunology)
    - Mental Health (EABSS framework)

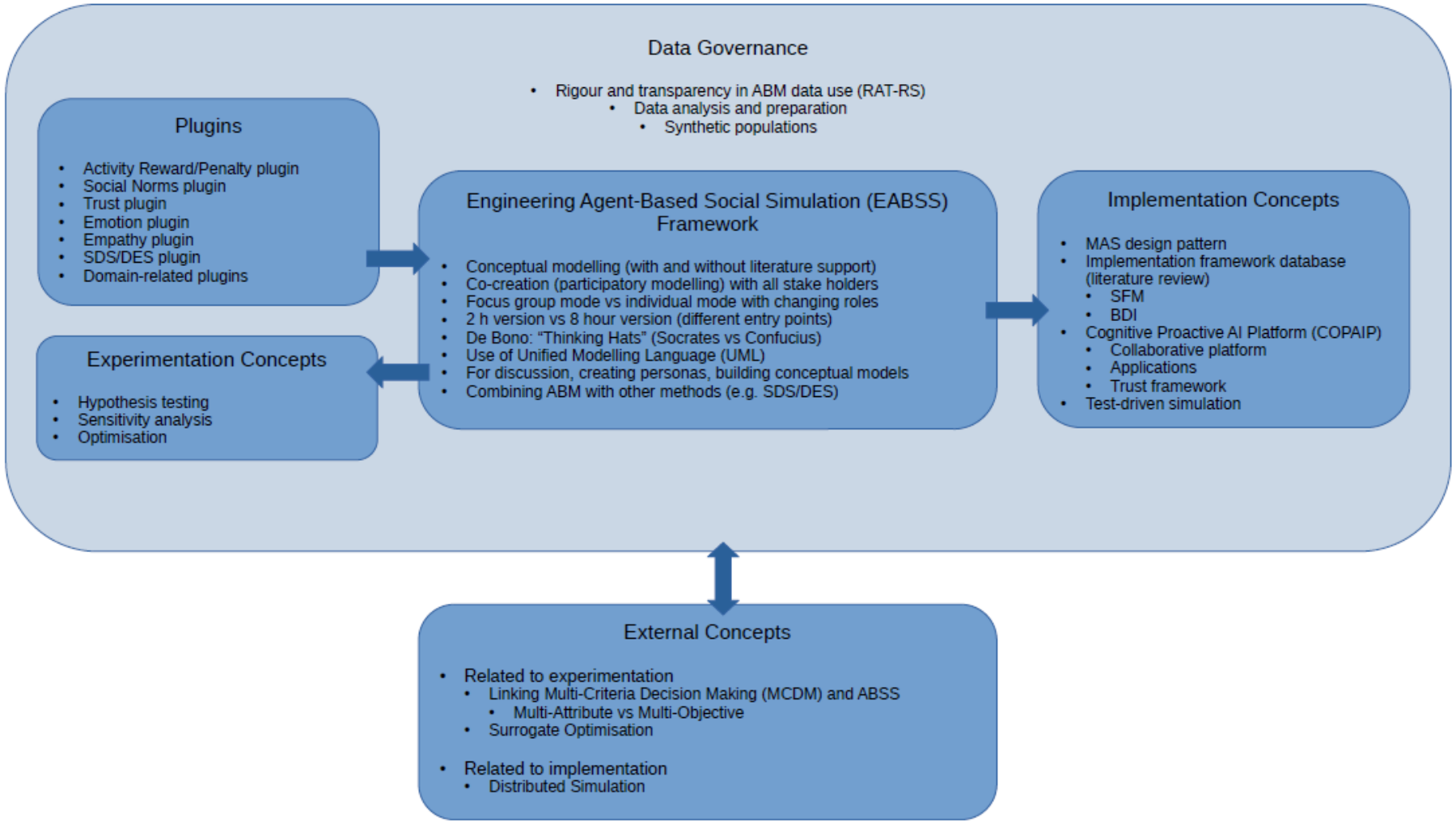


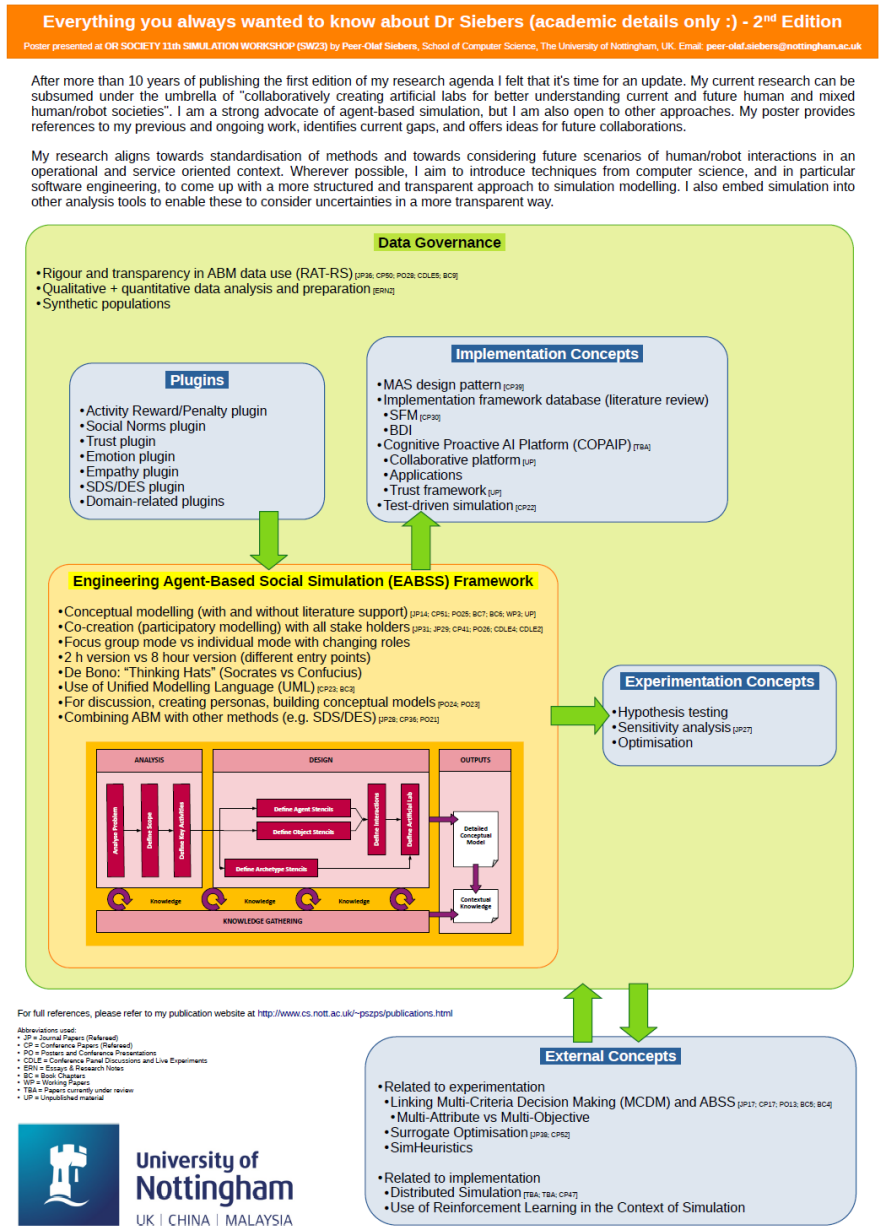
# My Research Interests

- Simulating the future of service

Peer's Research Agenda (01/2023)

# Collaboratively Creating Artificial Labs for Better Understanding Current and Future Human and Mixed Human/Agent Societies






Siebers (2023)

# Agenda

- Day 1
  - Welcome
  - Simulation Modelling Framework
  - Agent-Based Modelling and Simulation
  - EABSS Introduction
- Day 2
  - Running Focus Groups
  - UML (Unified Modelling Language)
  - EABSS Example + EABSS Practice (recreate and improve an existing model)
- Day 3
  - EABSS Practice (create your own model)

# Agenda

- Additional topics
  - ABM case studies
  - Introduction to AnyLogic + OO + Java
  - Collaboration Opportunities
  - TBA

# Any Questions?