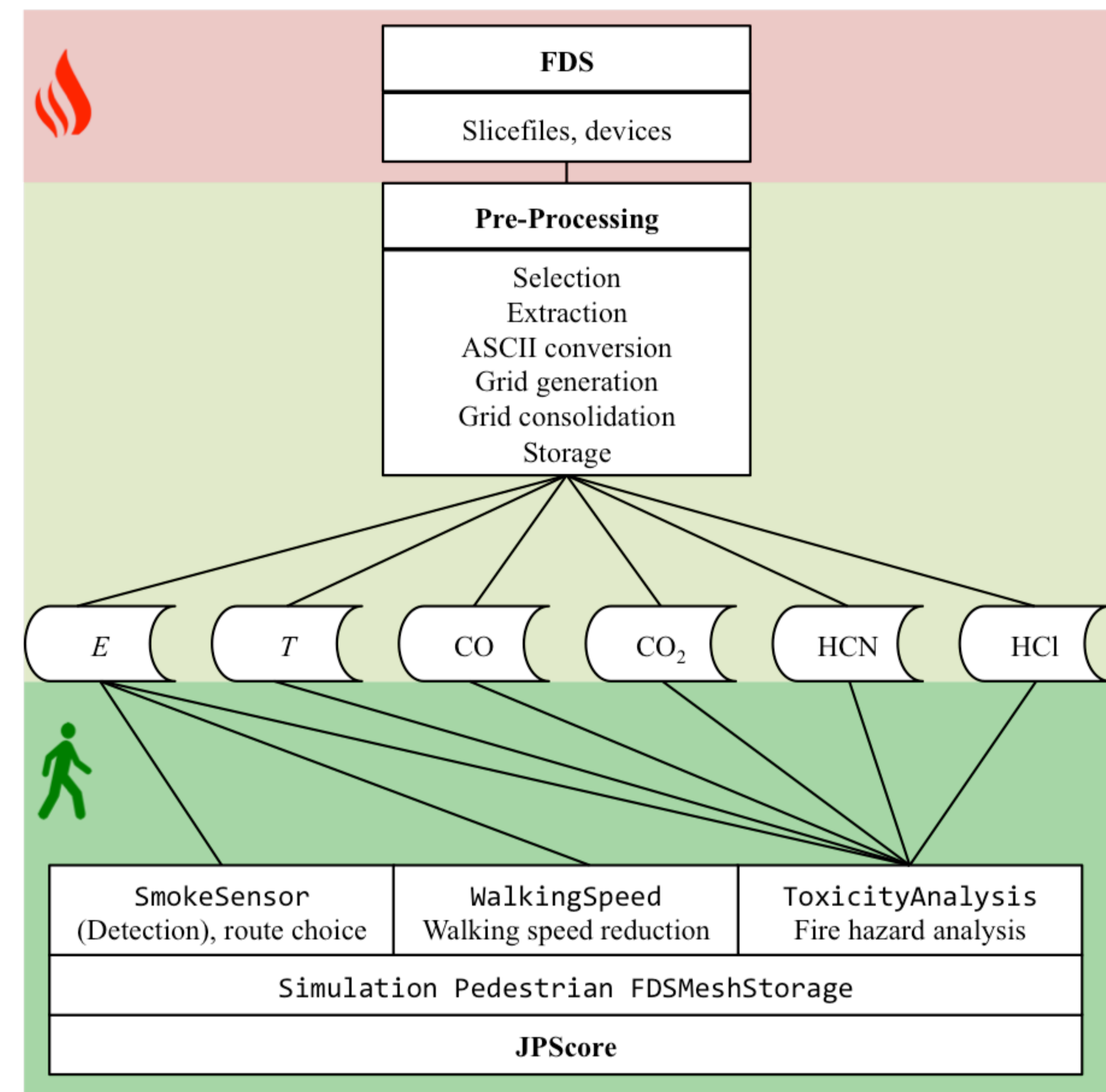
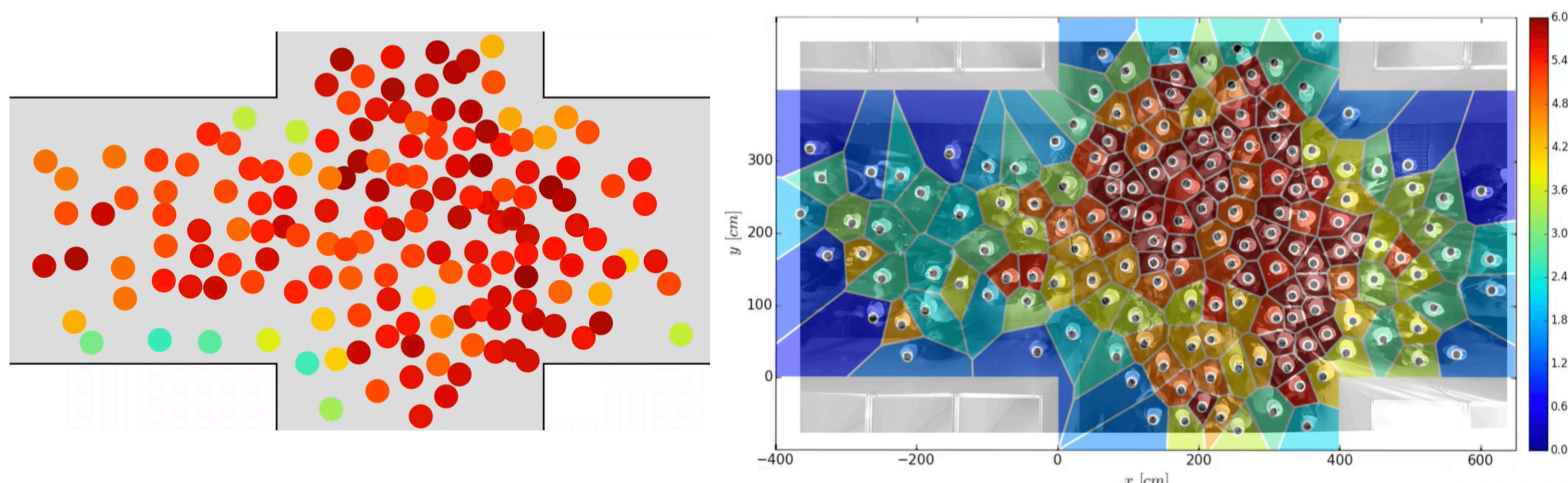
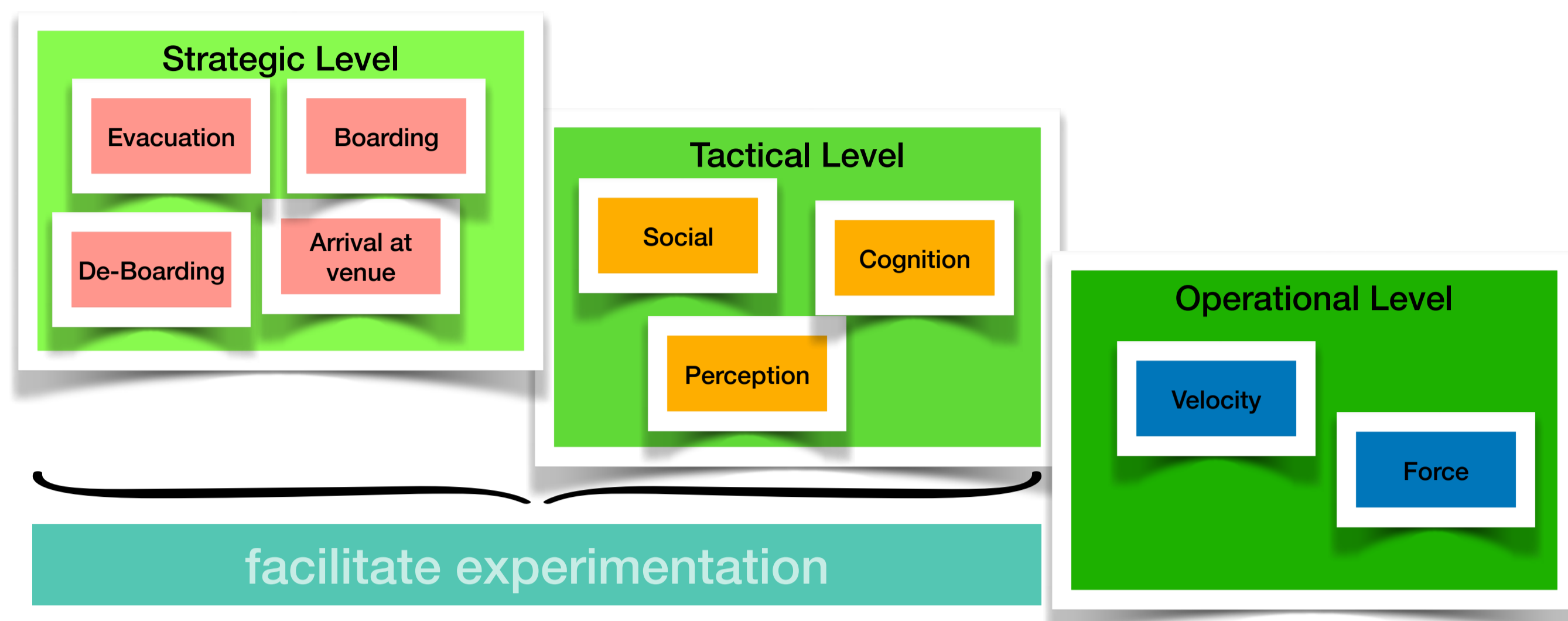


Enhancing Simulated Behavior in Smoke

Towards a Versatile Pedestrian Dynamics Simulation Library



- ❖ Less access to Software Engineers with C++ experience is a problem.
- ❖ Python has become even more prevalent than 10 years ago. Almost everyone we consider a potential user is somewhat proficient in Python.

- ❖ JuPedSim is a python library with a native core for performance relevant tasks.
- ❖ State of the simulation can be modified at every iteration, allowing to implement all of the Strategic and Tactical level in an ad-hoc fashion for quick experimentation.
- ❖ Basic elements to script behaviour are provided, i.e. way pointing, waiting at position, scripted queues, exits allowing to model more complex scenarios as before.
- ❖ Equipped with appropriate visualization and analysis tools.

jupedsim
[Python]

py_jupedsim.cpython-310.so
[Python Wrapper]

libjupedsim.so
[C Wrapper]

libsimulator.a
[C++ internal only]

Public Interface