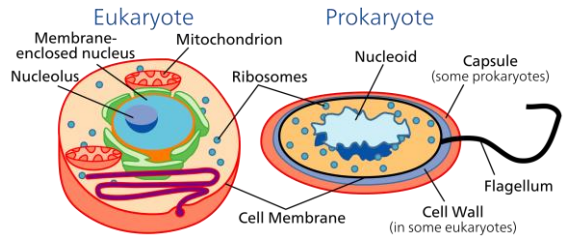
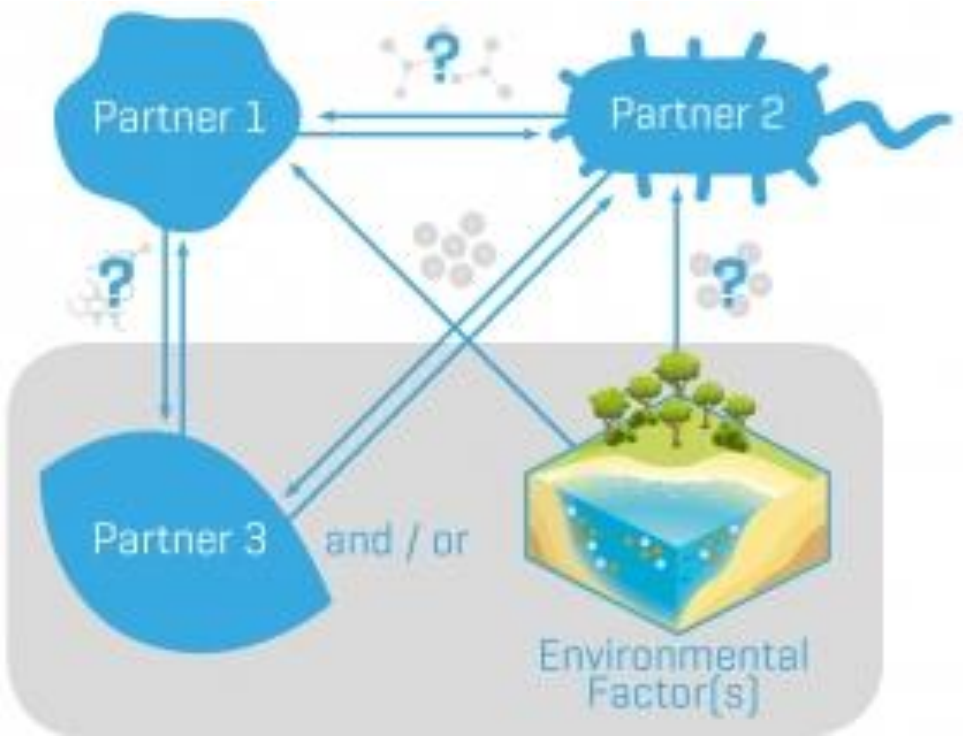
ChemBioSys -Goals



Goals of ChemBioSys:

1. Discovery of chemical mediators and their targets
2. Understanding the mechanisms that generate community structures
3. Directed modulation of complex Biosystems

Understanding Complex Communities



http://www.chembiosys.de/en/research/

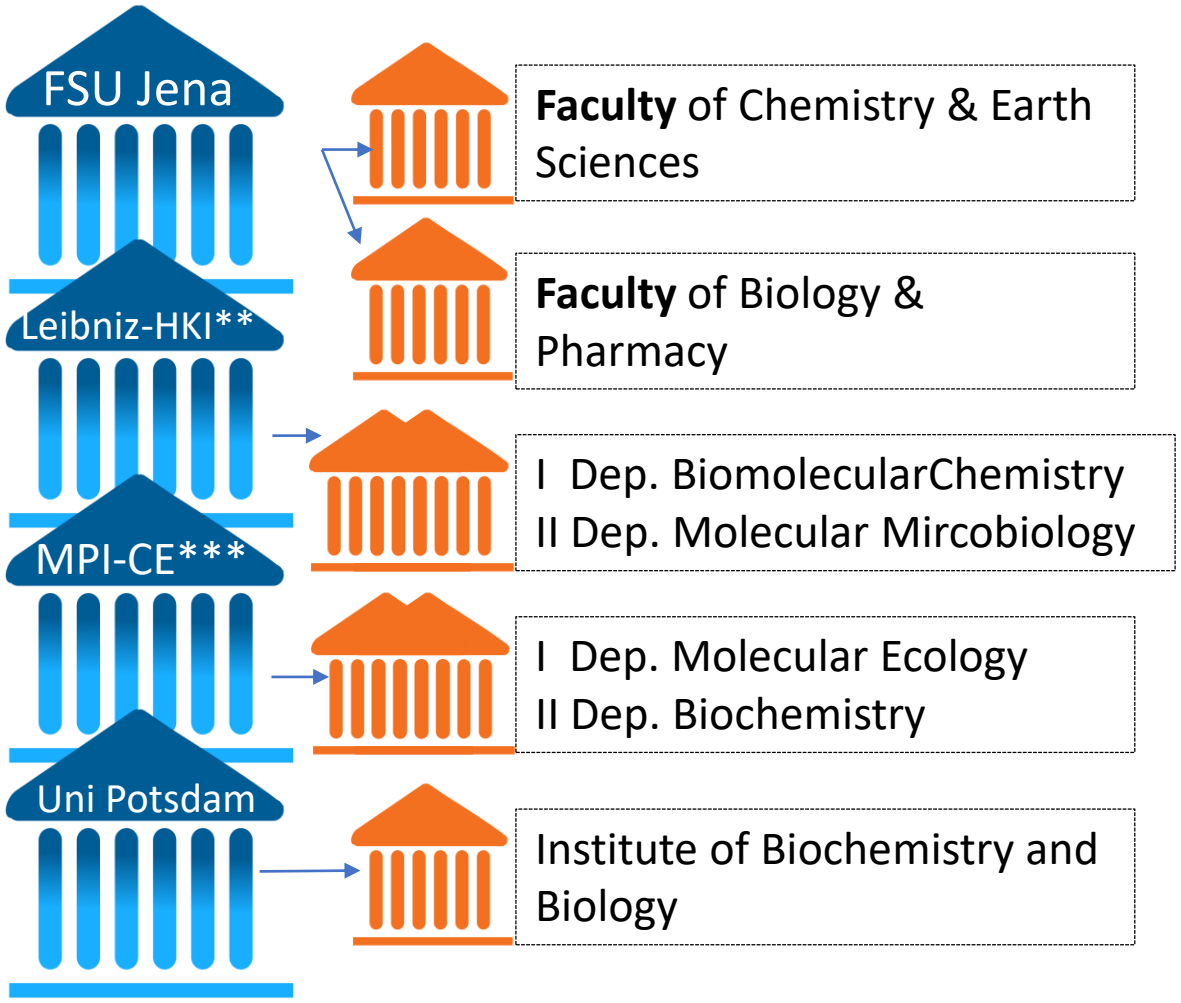
ChemBioSys - Project

- Second DFG funding period (2018 -2022)
- Large Project: Currently ca. 70 active scientists
- Phd- and Masters‘ Theses, Students‘ Projects

ChemBioSys – Organisational Structure

*not listed **Hans-Knöll-Insitute ***Max-Planck-Institute for Chemical Ecology, RG: Research Group

ChemBioSys – Organisational Structure



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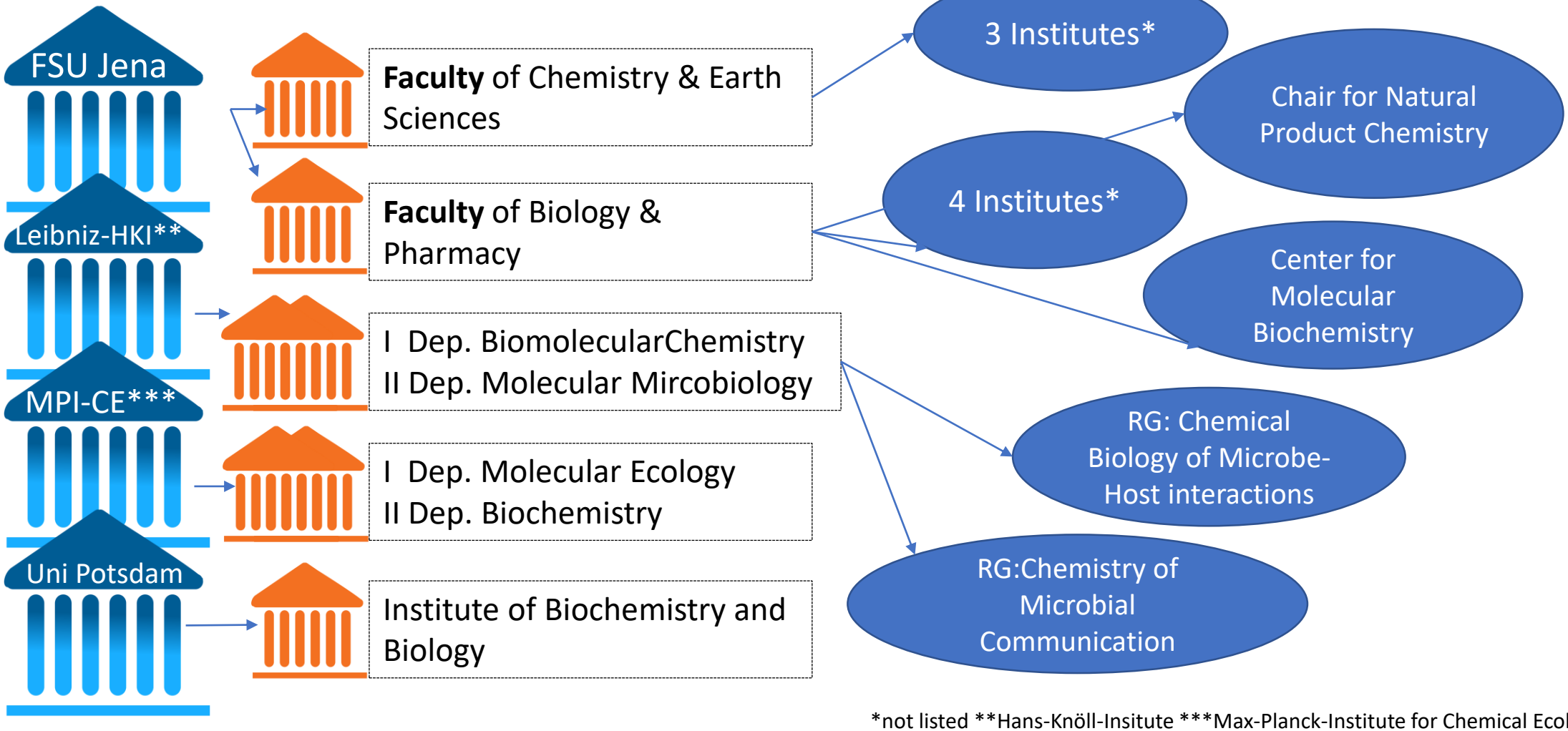
ChemBioSys – Organisational Structure



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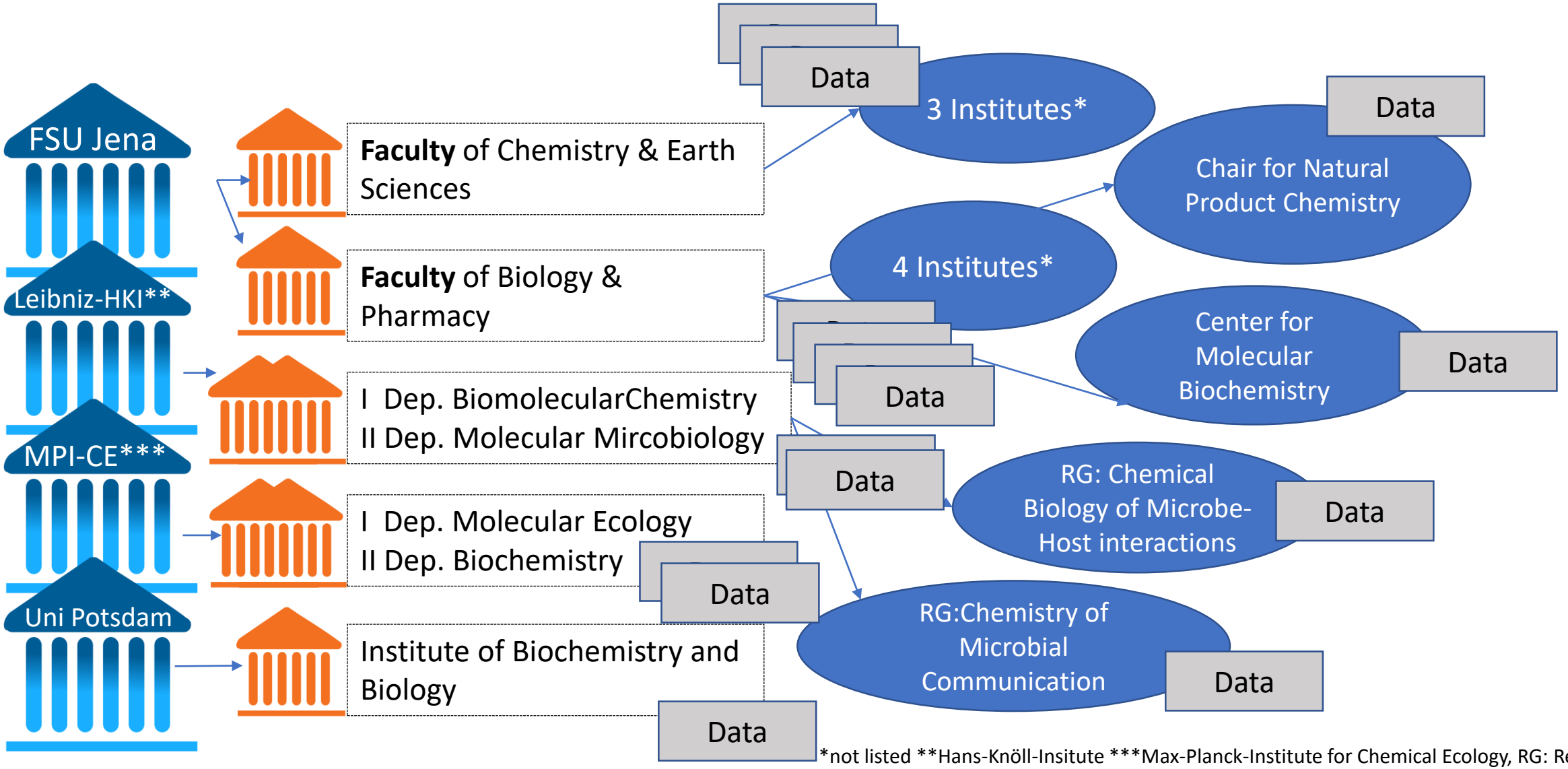
ChemBioSys – Organisational Structure



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ChemBioSys – Data Overview

Mass-Specrometry LC-MS, GC-MS

Molecule Mass Data

LC-MS and GC-MS produce similar data

Nuclear Magnetic Resonance Spectroscopy (NMR)

Molecule / protein detection & analysis

Structure, dynamics, reaction state, chemical environ-ment of molecules

Gene Sequencing

Mostly DNA/RNA-Strings A,U,T,G,C

Image Data

Images (jpeg, png, svg, …)

Usages:

- Petri dishes
- Plants
- Bacteria
- etc.

Metabolism Data

…