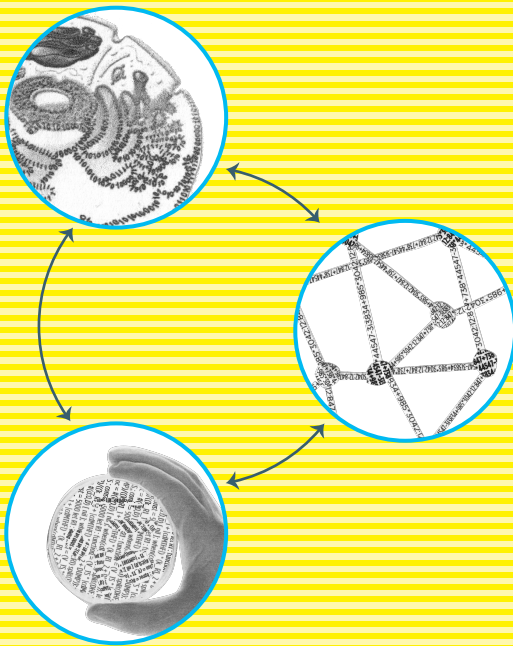




COSBI



A research center propelling **algorithmic systems biology** through

advanced **research** programs,

collaborative **projects** worldwide,

and **solutions** to our valued partners

to enhance computer science
and systems biology.

COSBI OFFERS

- skilled technical and scientific expertise to academic and industrial partners to establish **research contract collaborations**

- an **in silico research platform**, COSBI LAB: integrated artificial laboratory designed to perform in silico life science experiments

- **tailored, ad hoc solutions**, integrated to our partners' way of working

From knowledge inference to predictive simulations, from data mining to the creation of new complex algorithms.

COSBI is a joint venture between Microsoft Research and the University of Trento, inaugurated on December 7, 2005.

COSBI is a young, international research center where researchers in life sciences and computer science cooperate to develop new conceptual, software tools to unravel the basic principles of life.

COSBI's innovative algorithmic methodologies and techniques represent the ideal solution to problems raised by our academic and industrial partners.

RESEARCH COLLABORATIONS

LIFE SCIENCE

COSBI solutions help life science partners meet needs such as data mining to gather available information, inference methods to extract knowledge from unshaped information, simulation and prediction of dynamic evolution of complex systems.

PHARMA

COSBI solutions help pharma partners achieve several crucial goals such as reduce time and costs of new discoveries, analyze in silico details of drug behavior and perform in silico PK/PD experiments.

COMPUTER SCIENCE

COSBI solutions help our partners solve needs related to programming language design, implementation and usage. We specialize in modeling process engineering, domain-specific language interfaces and modeling language design, causal and quantitative analysis.

AD

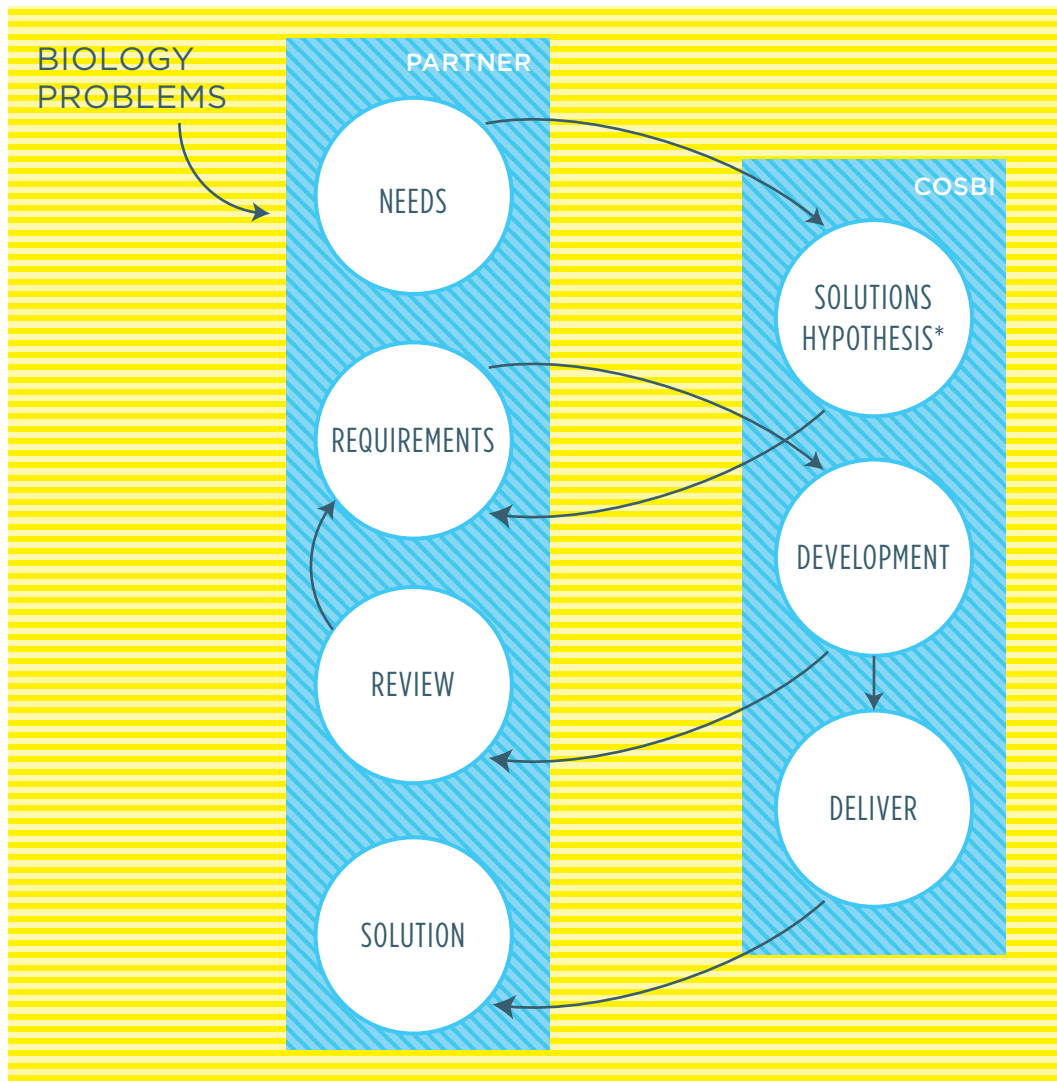
Our in silico research laboratory COSBI LAB can be customized to our partners' needs and ways of working including options such as graphical user interface design, algorithm tuning and simulation engine tuning.



HOC

The end solution maintains all the powerful computational capacity of our programming language while hiding from users the technical details and difficulties typical of a computational approach.

SOLUTIONS



*based on knowledge inference and algorithmic modeling and simulation

COSBI LAB

COSBI LAB is a suite of integrated software tools which provide researchers with a laboratory to perform in silico experiments.

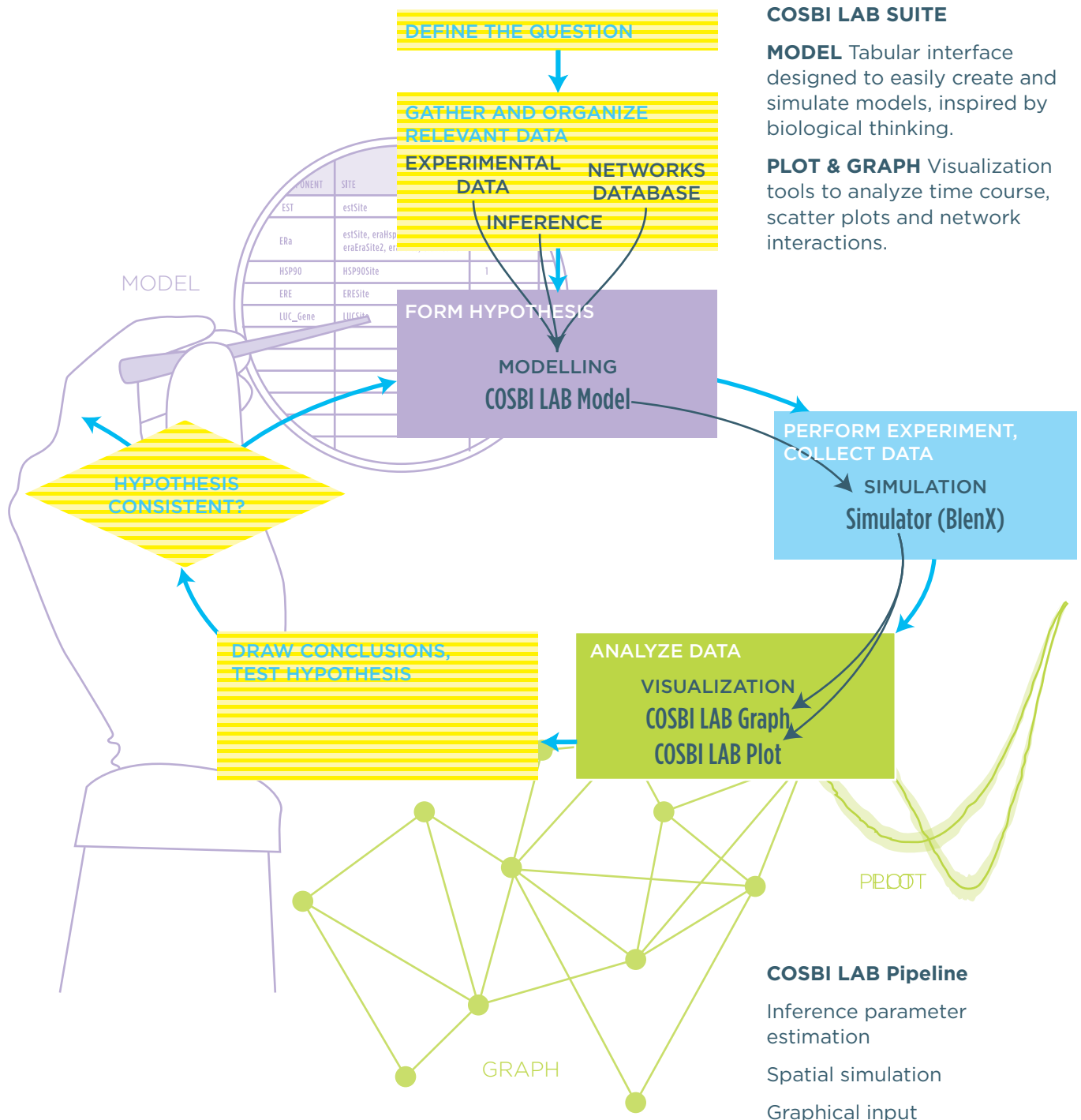
COSBI LAB allows you to build models and run predictive simulations in an incremental and modular way without the need for specific skills in computer science or mathematics.

COSBI LAB is in continuous growth, driven by our partners' needs.

COSBI LAB SUITE

MODEL Tabular interface designed to easily create and simulate models, inspired by biological thinking.

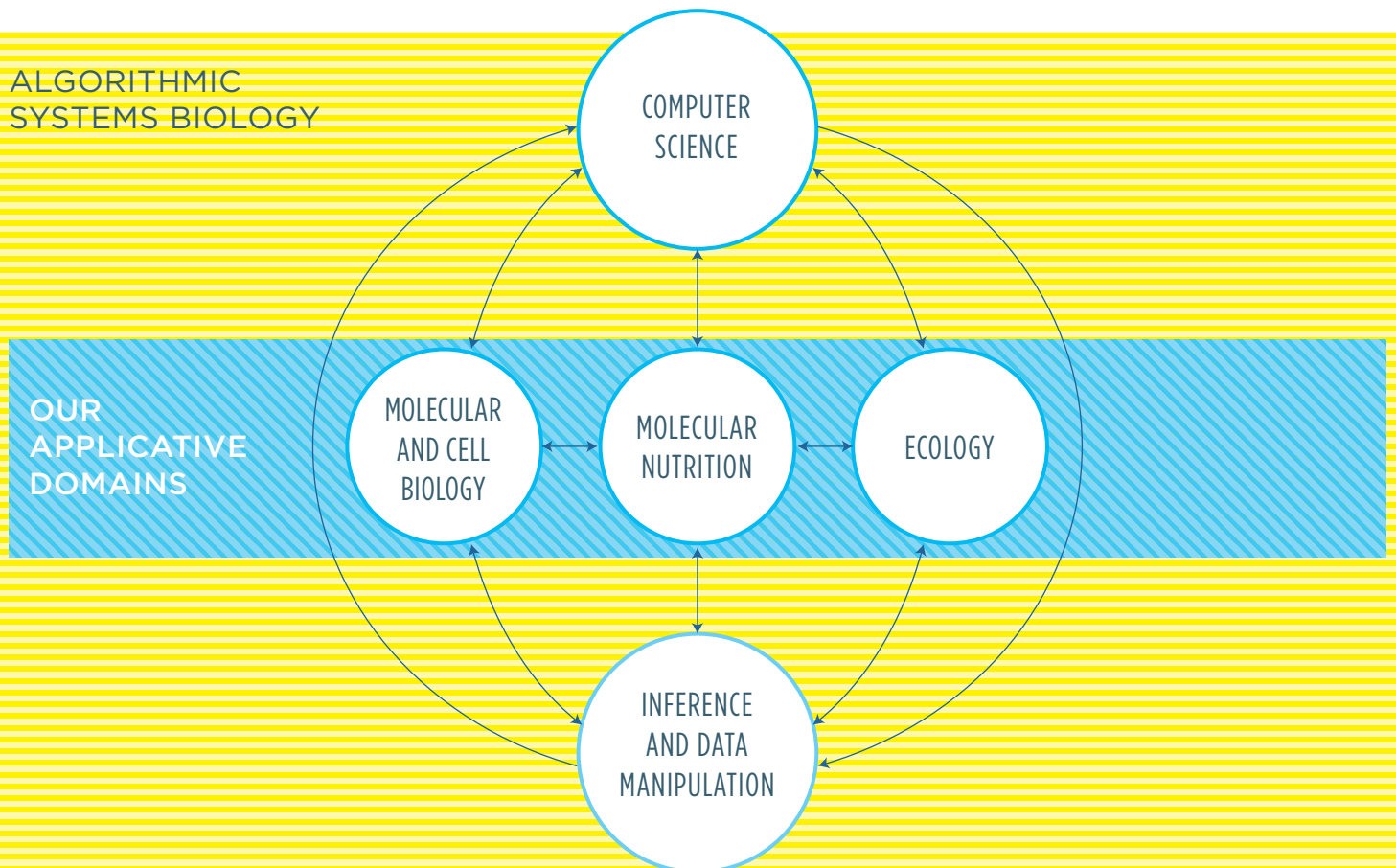
PLOT & GRAPH Visualization tools to analyze time course, scatter plots and network interactions.



OUR TEAM

We are a growing, multi-cultural and multi-disciplinary group of committed and highly skilled researchers, software developers and analysts aiming to become pace setters in our field.

Our research expertise covers the following areas:



All research efforts are devoted to contributing to the development of models and the study of scientific problems raised by our partners while aiming to develop new conceptual and computational tools for enhancing research in the particular field.

COSBI

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