PaVeDyS

Parametric Verification of Dynamic Distributed Systems

VERIMAG, Grenoble (Radu Iosif, PI)

LABRI, Bordeaux (Igor Walukiewicz)
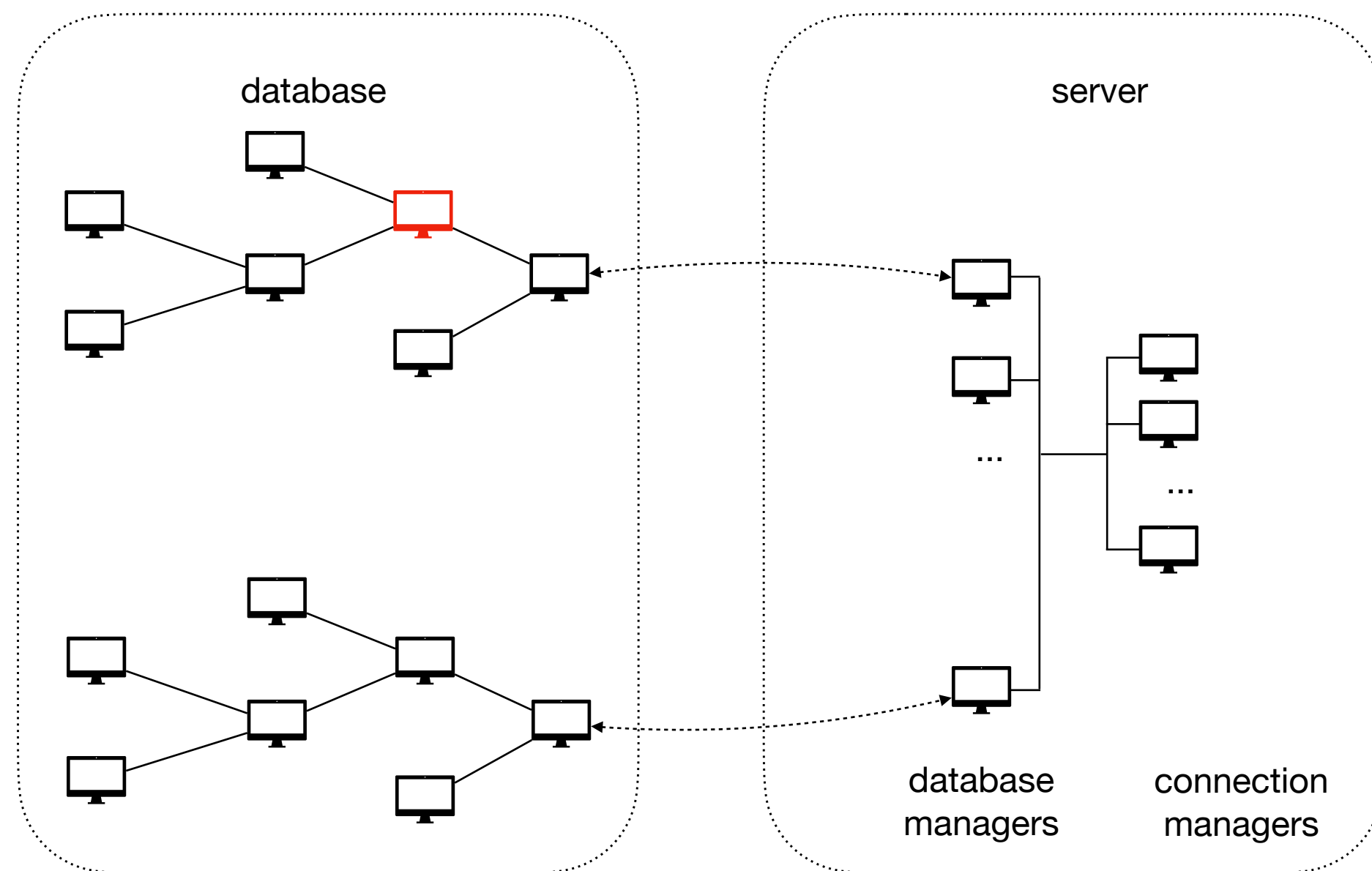
INRIA, Rennes (Nathalie Bertrand)

IRIF, Paris (Marie Fortin)

Project Goals

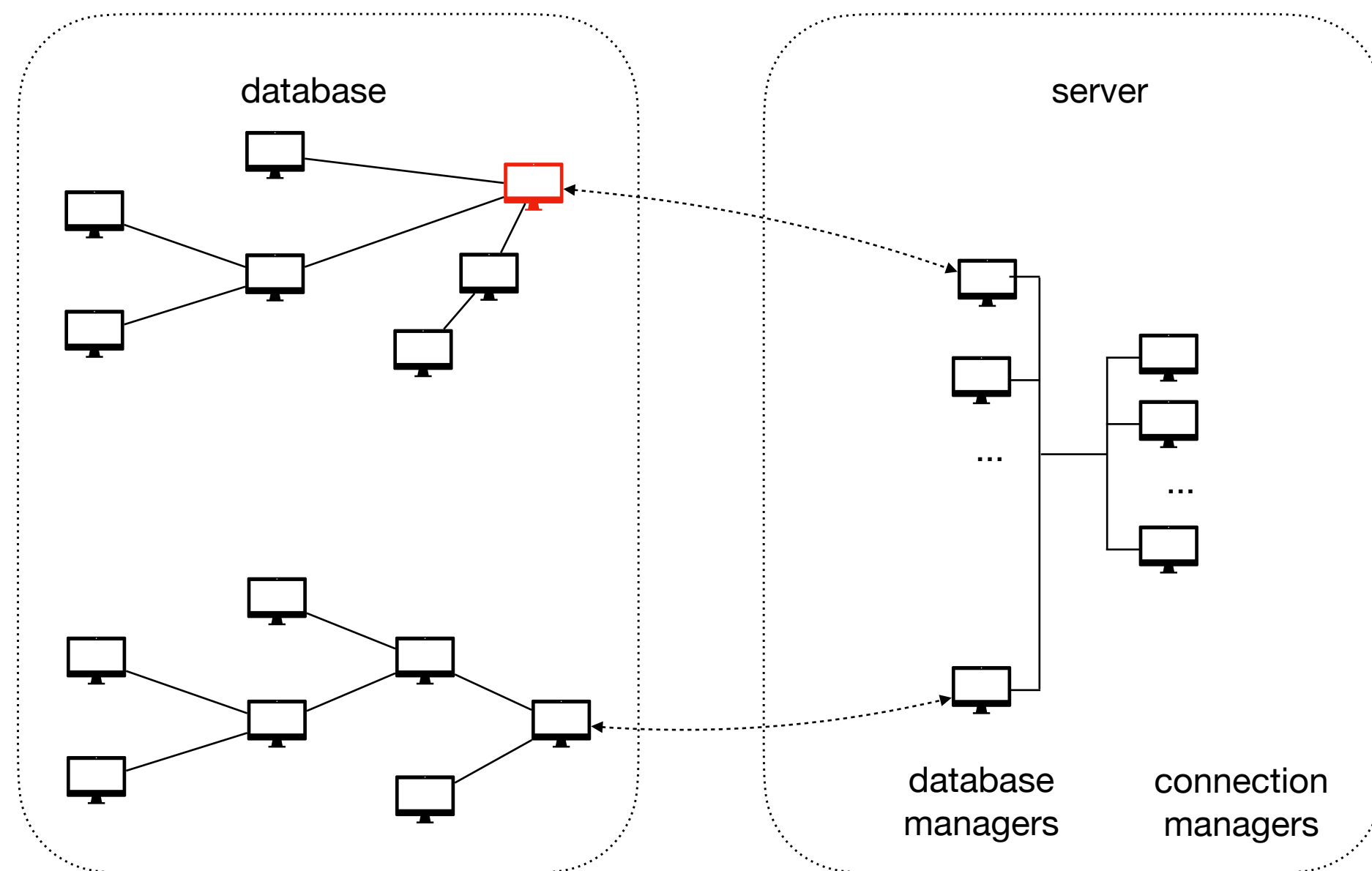Automate the reasoning about modern distributed systems with dynamically changing networks of participants of unbounded sizes

Project Goals

Automate the reasoning about modern distributed systems with dynamically changing networks of participants of unbounded sizes
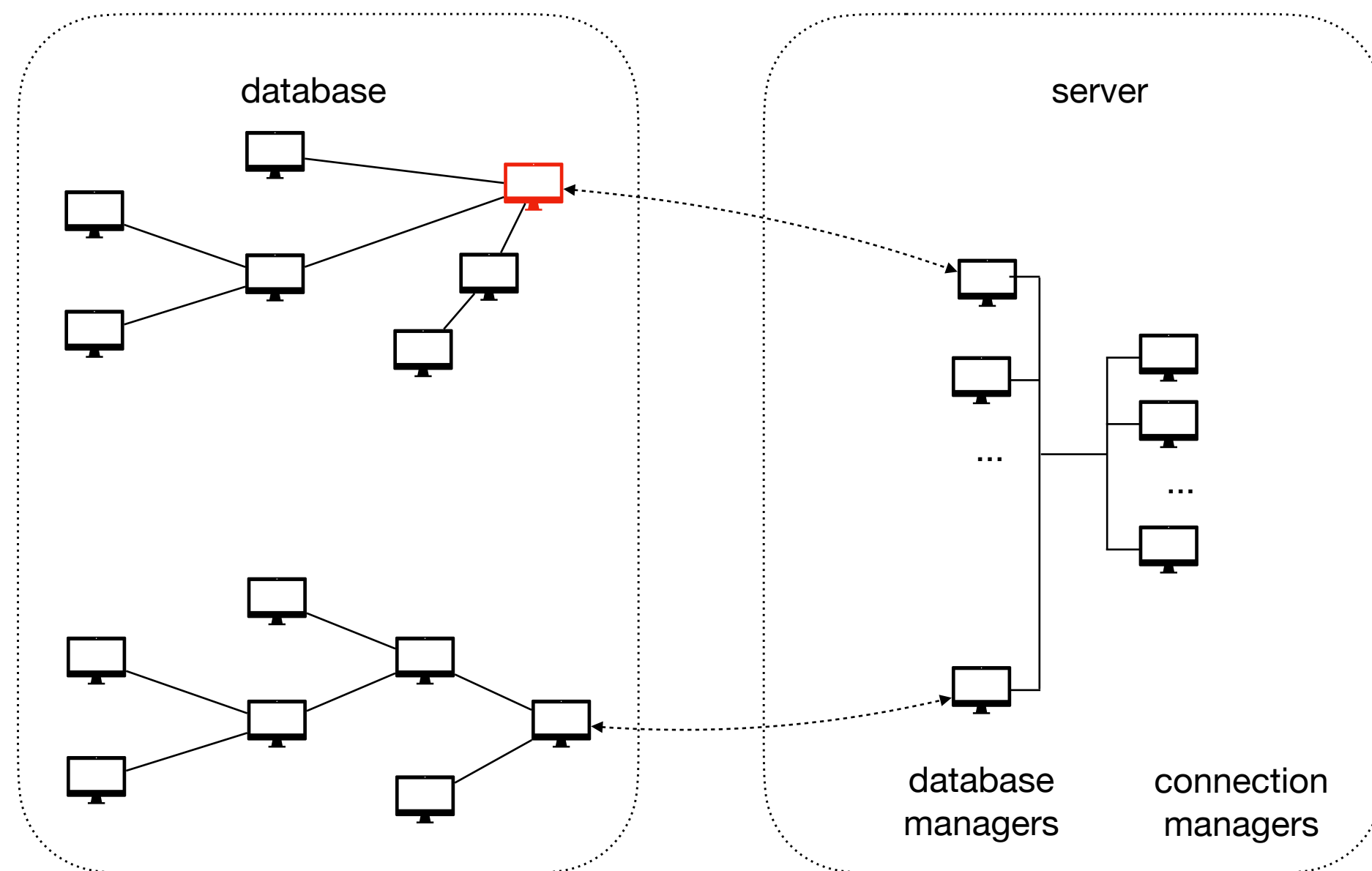
Project Goals

Automate the reasoning about modern distributed systems with dynamically changing networks of participants of unbounded sizes
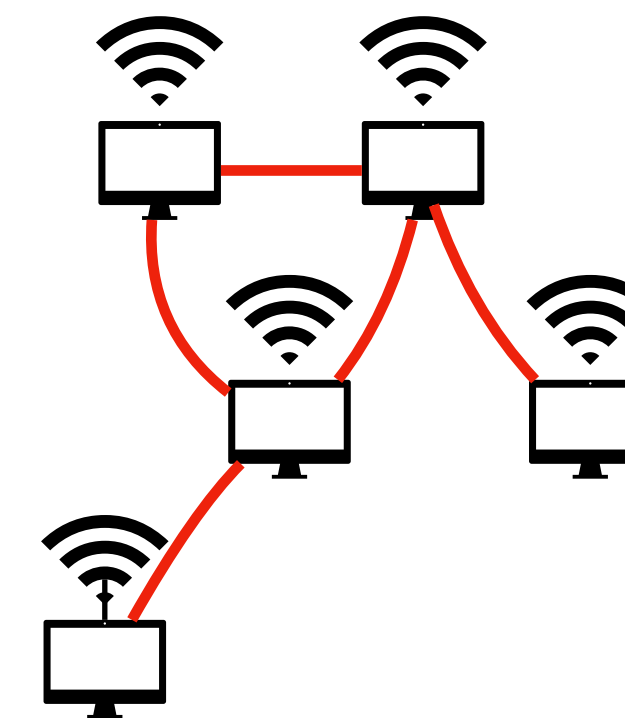

Internal Reconfiguration
Self-adapting Networks

Project Goals

Automate the reasoning about modern distributed systems with dynamically changing networks of participants of unbounded sizes
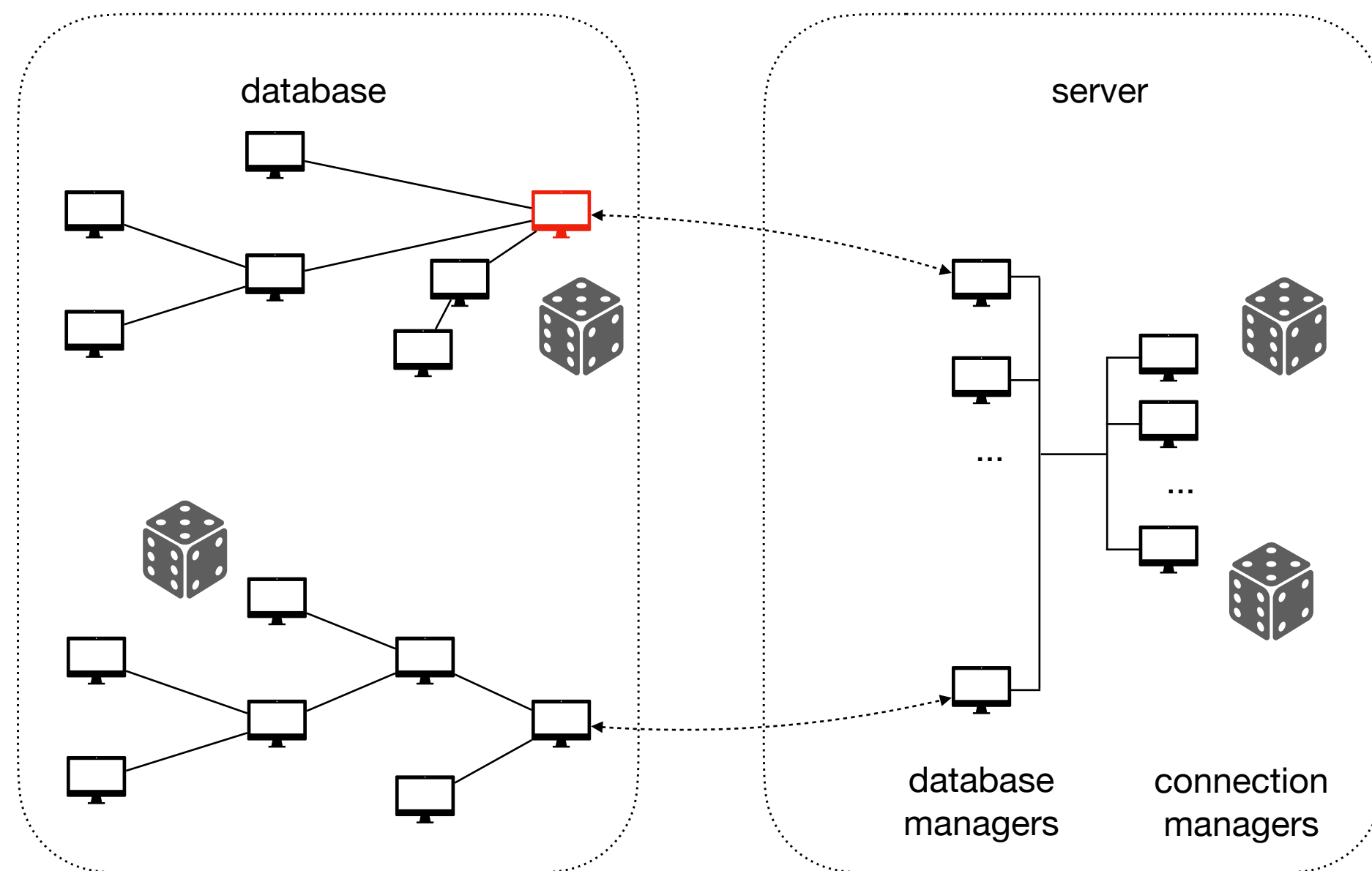

Internal Reconfiguration
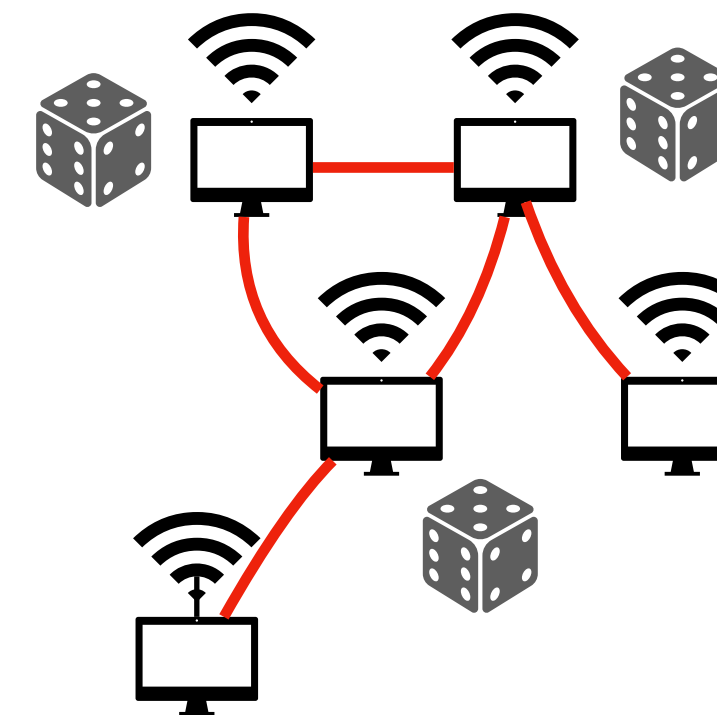Self-adapting Networks

External Reconfiguration
Mobile Networks

Project Goals

Automate the reasoning about modern distributed systems with dynamically changing networks of participants of unbounded sizes

database

server

database managers

connection managers

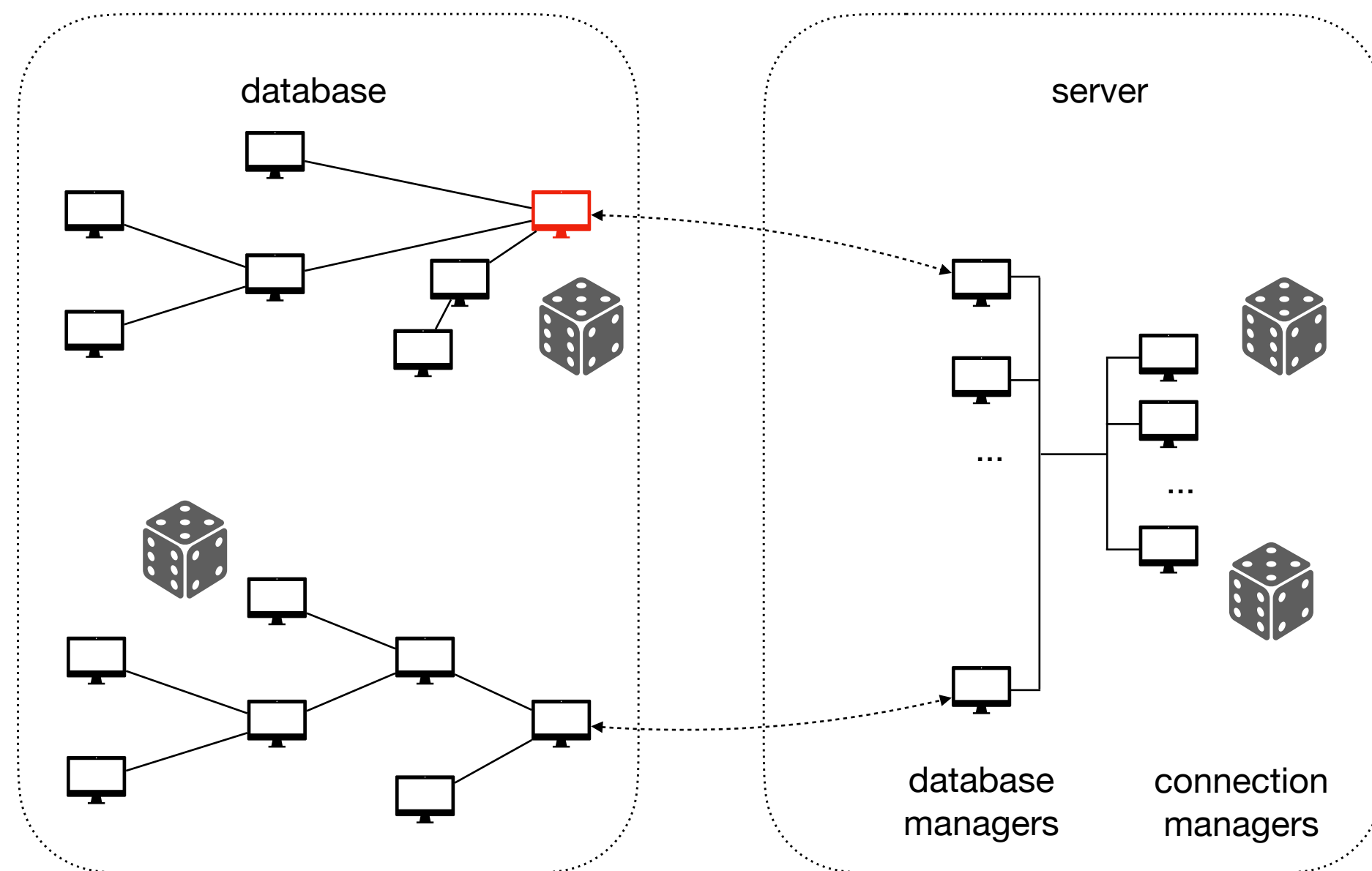Internal Reconfiguration
Self-adapting Networks

Randomized Behaviors
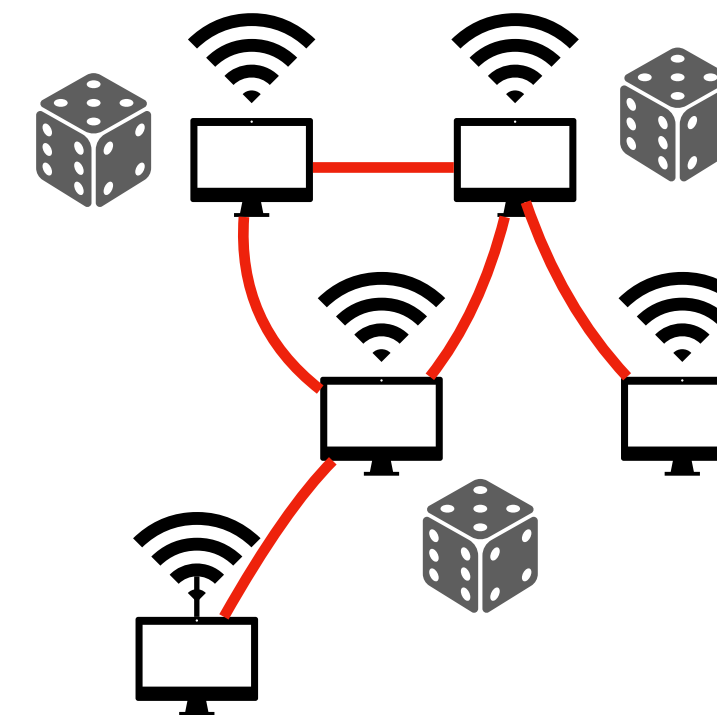and Reconfiguration

External Reconfiguration
Mobile Networks

Project Goals

Automate the reasoning about modern distributed systems with dynamically changing networks of participants of unbounded sizes
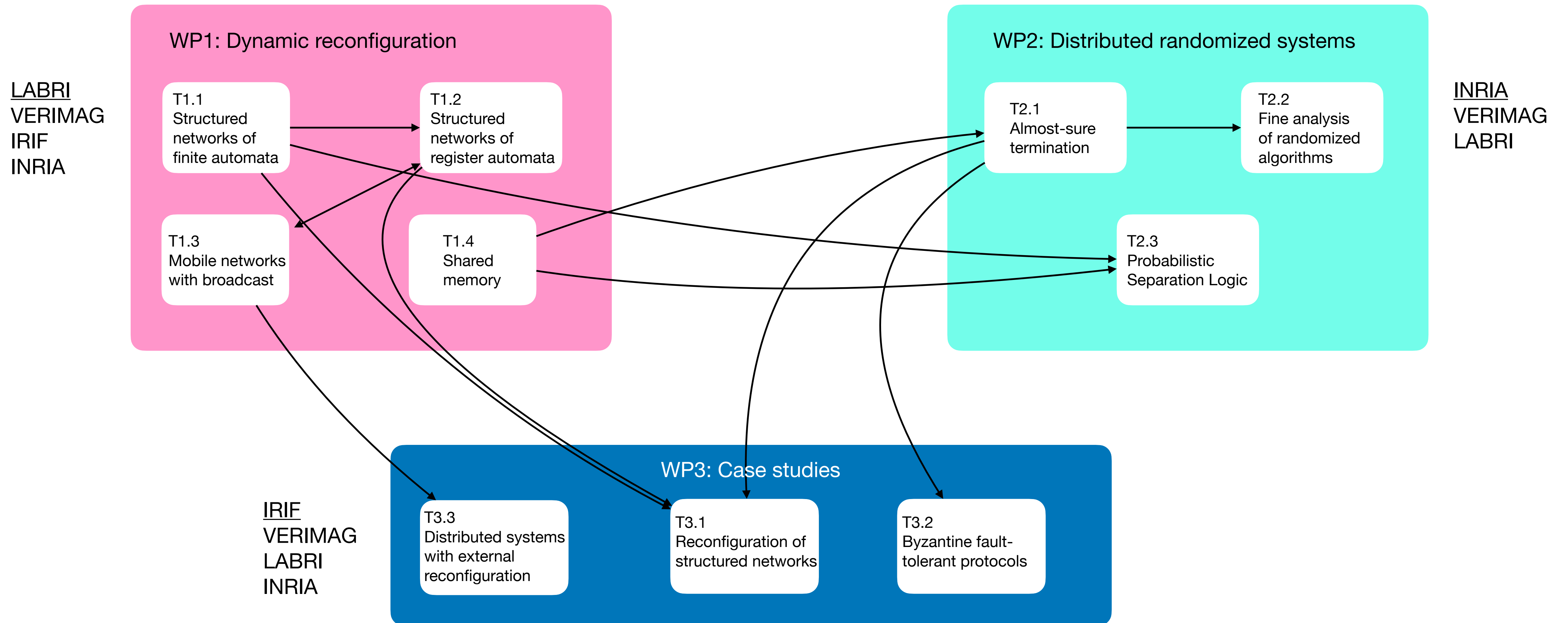

Internal Reconfiguration
Self-adapting Networks

Randomized Behaviors
and Reconfiguration

Rich Correctness Criteria
(e.g., convergence)

External Reconfiguration
Mobile Networks

Project Organisation

Consortium : 300 p/m

- **VERIMAG**: Radu Iosif (PI), Marius Bozga, Karine Altisen, Lucas Bueri + 1 PhD (96p/m)

- **LABRI**: Igor Walukiewicz (WP1), Hugo Gimbert, Anca Muscholl, Mikhail Raskin, Corto Mascle (68 p/m)

- **INRIA**: Nathalie Bertrand (WP2), Thierry Jéron, Nicolas Markey, Ocan Sankur, Nicolas Waldburger + 1 PhD (92 p/m)

- **IRIF**: Marie Fortin (WP3), Ahmed Bouajjani, Lucie Guillou, Jeremy Ledent (44 p/m) + Arnaud Sangnier (Universitá di Genova)

Kick-off meeting: January 16th 2024 @ IRIF, Paris