## **DIMENSIONS**

## Reliability, security, cooperation, energy efficiency

## **MODELS**

APPLICATION: WSN, IOT, PSDR, ...

- Event-based component model
- I/O Automata
- Failure models
- Graph models
  - Random geometric graphs
  - Mesh/multi-hop topology
- Link models
- Channel models

**MIDDLEWARE** 

TRANS: E2E reliable data or Stream transport

**NET:** Flooding, routing, hbh reliability, topology control

LINK: Contention-based contention-free channel access, error control, link layer broadcast

PHY: Wireless propagation, channel characteristics, collisions

Failure detection
Collision detection
Resource allocation
Synchronization
Localization
Consensus
Shared memory
Broadcast
Multicast
Leader election
Quorum
Telemetry
Tomography
Clustering