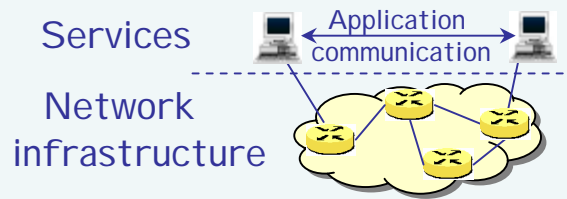


Problem

From a scenario



How to deploy IPv6?

State of the art

- Transition Mechanisms:
Dual stack, tunnels and protocol translation
- Source code adaptation:
Guidelines for using IPv6 APIs

Idea

METHODICAL IPv6 DEPLOYMENT

✓ IPv6 Transition Methodology

- Changes (3 levels) {
- Network infrastructure (routing nodes)
 - Node (end-points)
 - Application source code (services)

✓ Requirements:

- IPv4 & IPv6 network coexistence
- IPv4 & IPv6 applications interoperability
- Solutions aware of network & applications

Tool for Methodical IPv6 Deployment:

MENINA



IPv6 Transition Methodology

1. Formalization of initial scenario: routing nodes, end-point and applications
2. Formalization of IPv6 communication patterns needed in the scenario
3. Search for solutions: transition mechanisms and code adaptation
4. Evaluation of solutions: economical criteria

Tool for Methodical IPv6 Deployment:

MENINA



INPUT:

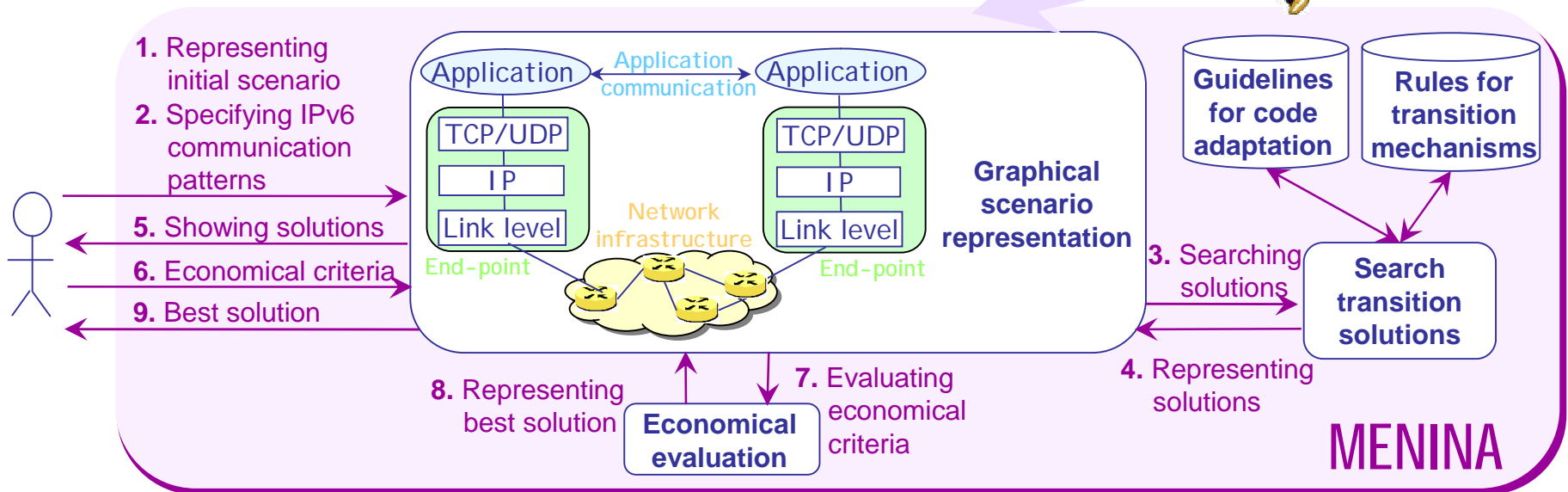
- Specific scenario:
network properties
- IPv6 communication patterns:
IPv6 application types



MENINA

OUTPUT:

- Transition solutions for the initial scenario:
- Network and
 - applications



Advantages

- ✓ Provides the IPv6 transition planning for a specific scenario
- ✓ Guarantees the IPv4/IPv6 coexistence and interoperability
- ✓ Systematizes the transition process
- ✓ Advanced IPv6 expertise is not required