NSI requires network topology knowledge to negotiate, reserve and provision end-to-end paths on demand. But how can we exchange this?

### Three main components

- **Topology Index** — Stores the location of the served topologies
- **Topology Provider** — Serves the topology files
- **Topology Consumer** — Processes the topology information

### Advantages

- Simple easy to re-use components
- Based on real topology information from the Automated GOLE
- NSA implementation independent

### Inter-Domain Path finding

- ID path that satisfies given requirements
  - Via or not via certain domains
  - Via or not via certain links
  - Predefined sequence of certain domain or links
- ID links may be described using many attributes
- Different (optimal) path-finding algorithms are supported for given topology