# Using Roles for OSS Adoption Strategy Models

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# OSS Adoption

- By 2016, 95% of all commercial software will be adopting OSS components

- How does OSS adoption impact on organizations' business models?

  ➔ OSS adoption strategies

# OSS Adoption Strategies

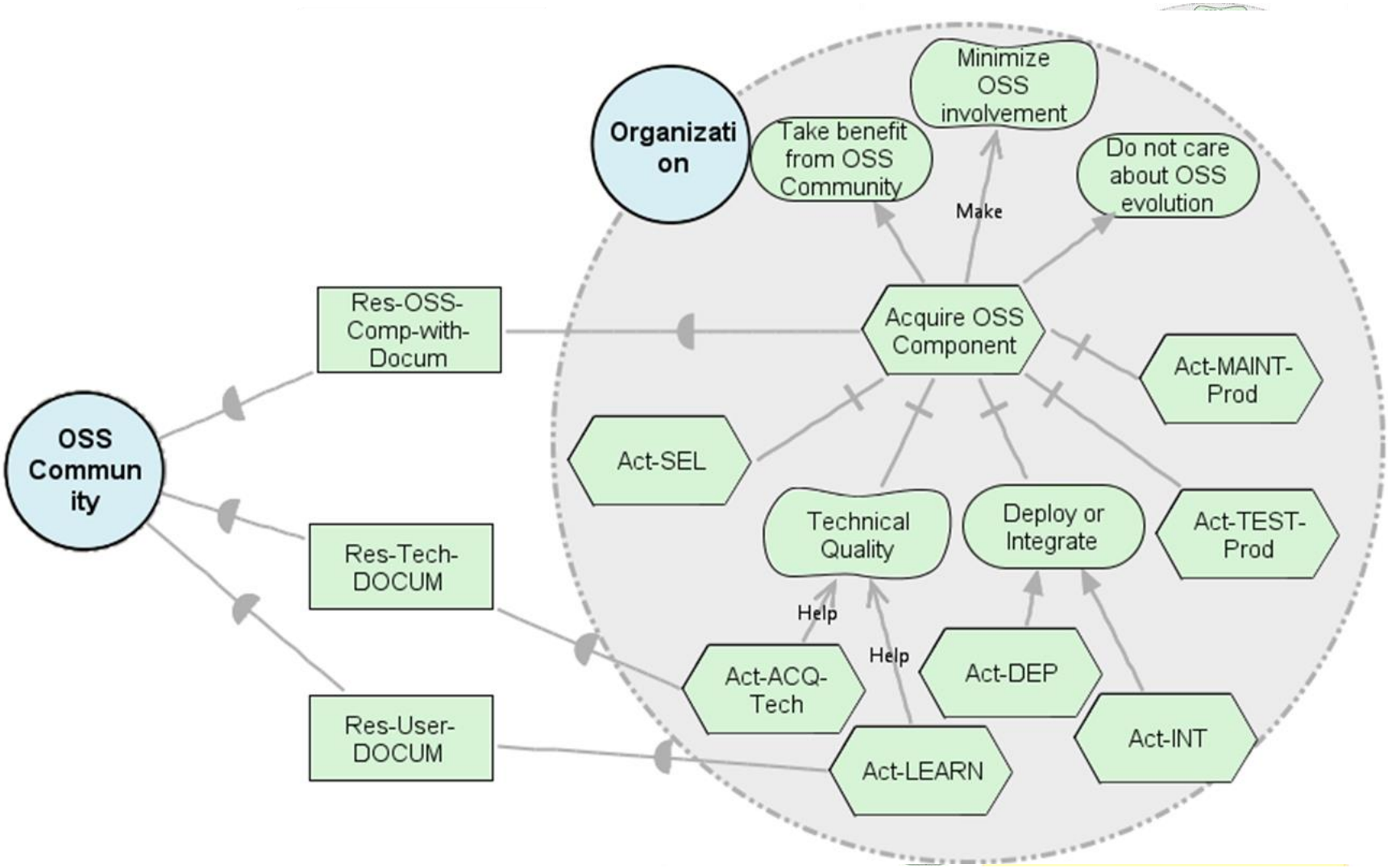
| | Involvement in OSS community | | |
|---|---|---|---|
| | **NO** | **ACTIVE** | **LEADING** |
| **Consumer** | Acquisition | Integration | Takeover |
| **Producer** | Release | Fork | Initiative |

Strategies are characterized by the assignment of responsibilities to the OSS community and the adopting organization

# Assignment of responsibilities

| riscoss | Integration | Initiative | Take-over | Fork | Acquisition | Release |
|---|---|---|---|---|---|---|
| **Community oriented Activities** | | | | | | |
| Act-NewCOMM | | X | | X | | |
| Act-DECIDE-Roadmap | | X | X | | | |
| Act-DECIDE-Acc | | X | X | | | |
| Act-DECIDE-Wishlist | X | | | X | | |
| Act-RELEASE | | X | | | | X |
| Act-RepPATCH | X | X | X | X | | |
| Act-RepBUG | X | X | X | X | | |
| Act-SUPP | X | X | X | X | | |

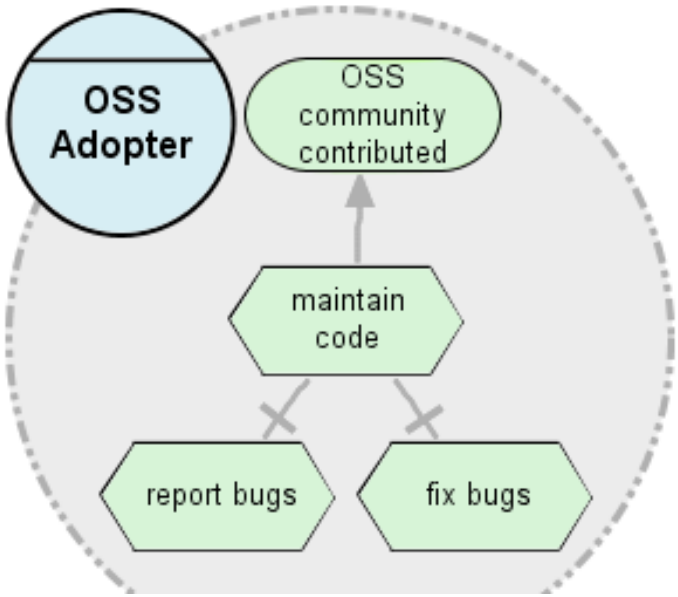
# Strategy modeling



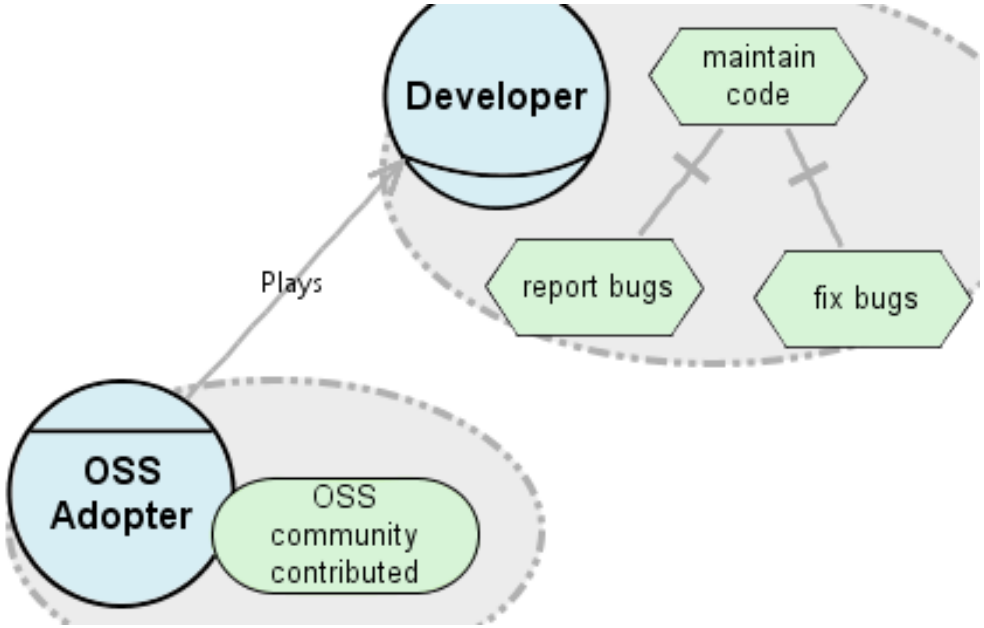

cf. ER'14 and DKE paper (available online)

# Observation

Intentional elements are assigned to the actors according to the roles that the organization plays in the OSS adoption process

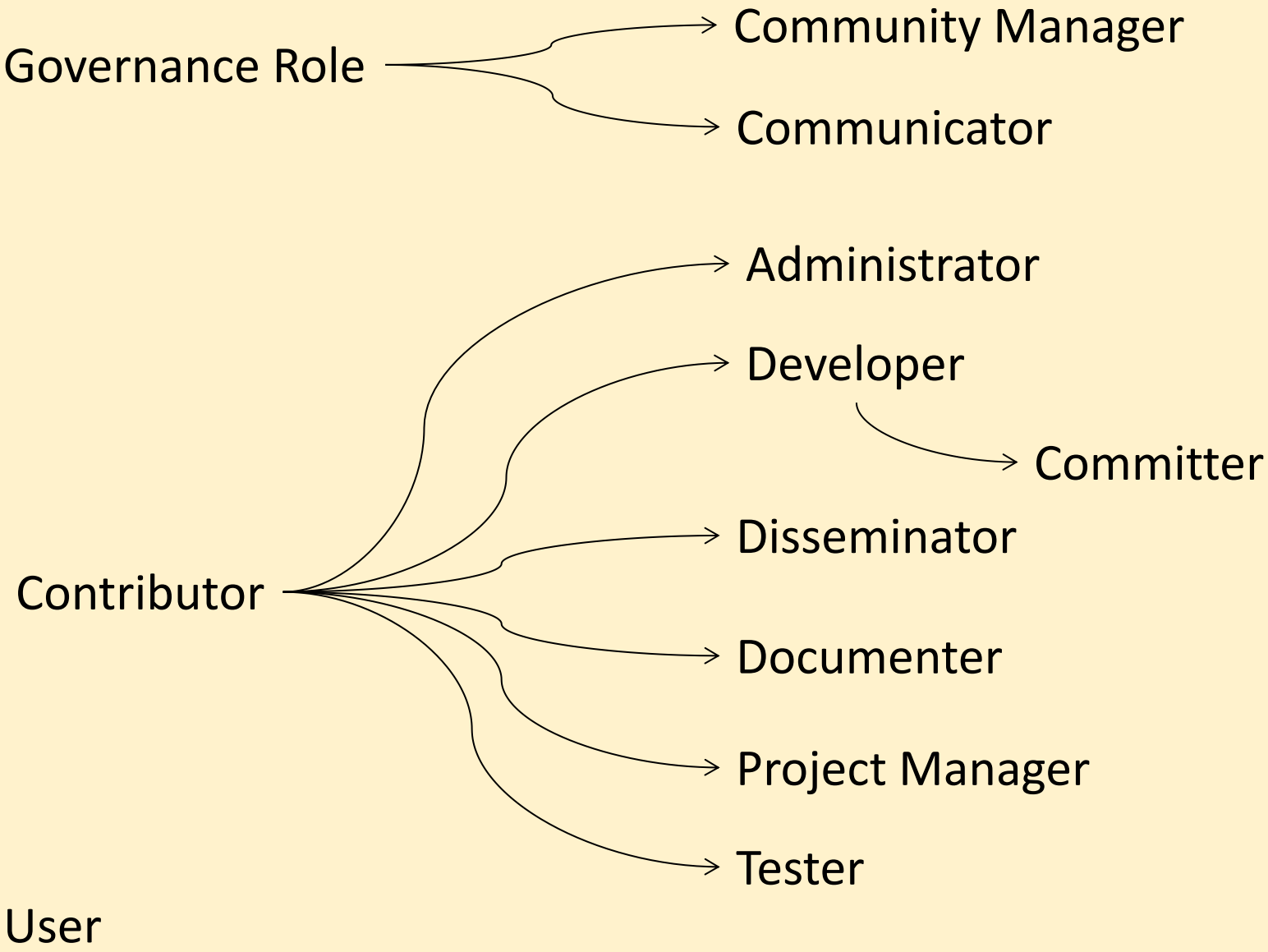



**WITHOUT ROLES**

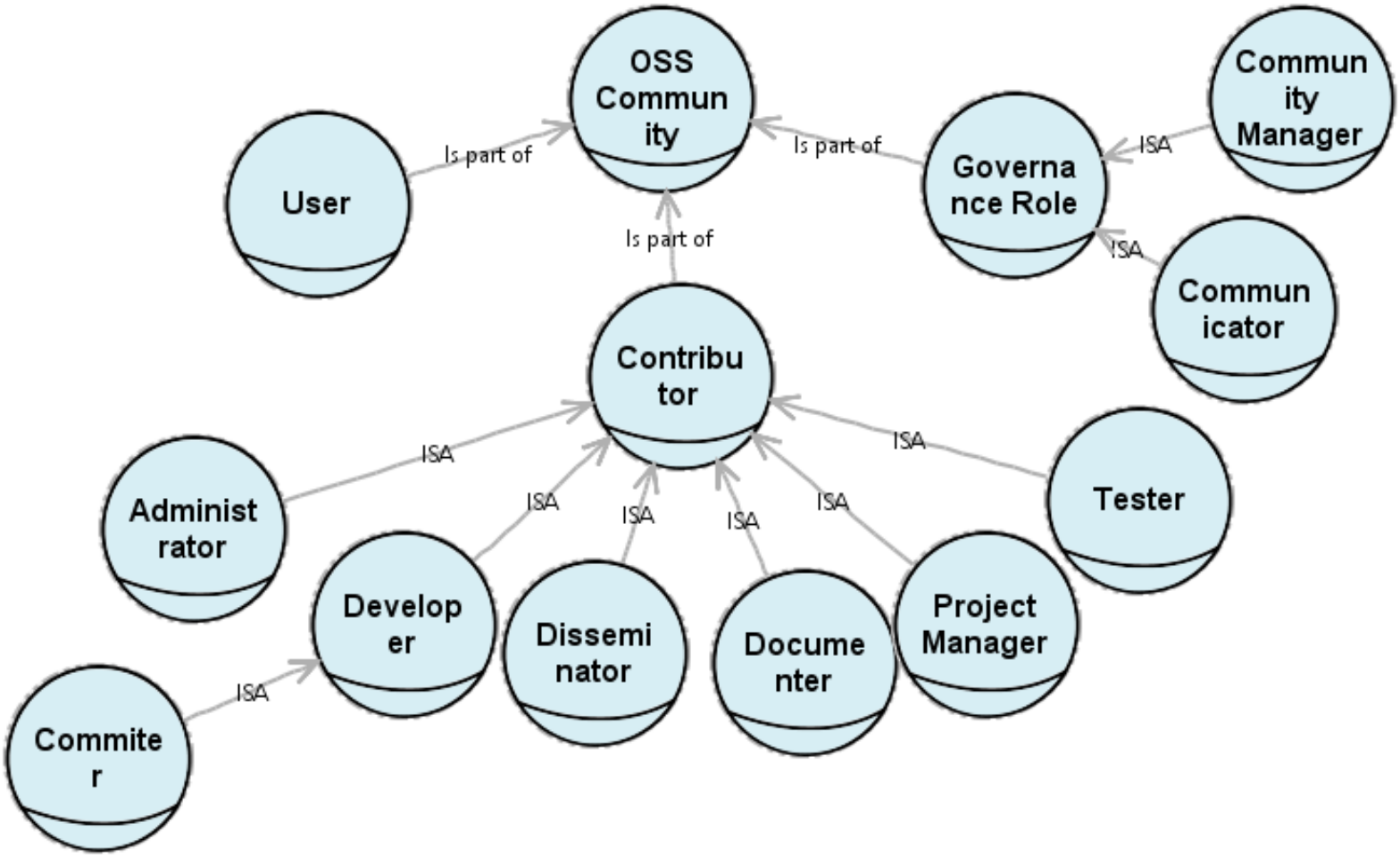



**WITH ROLES**

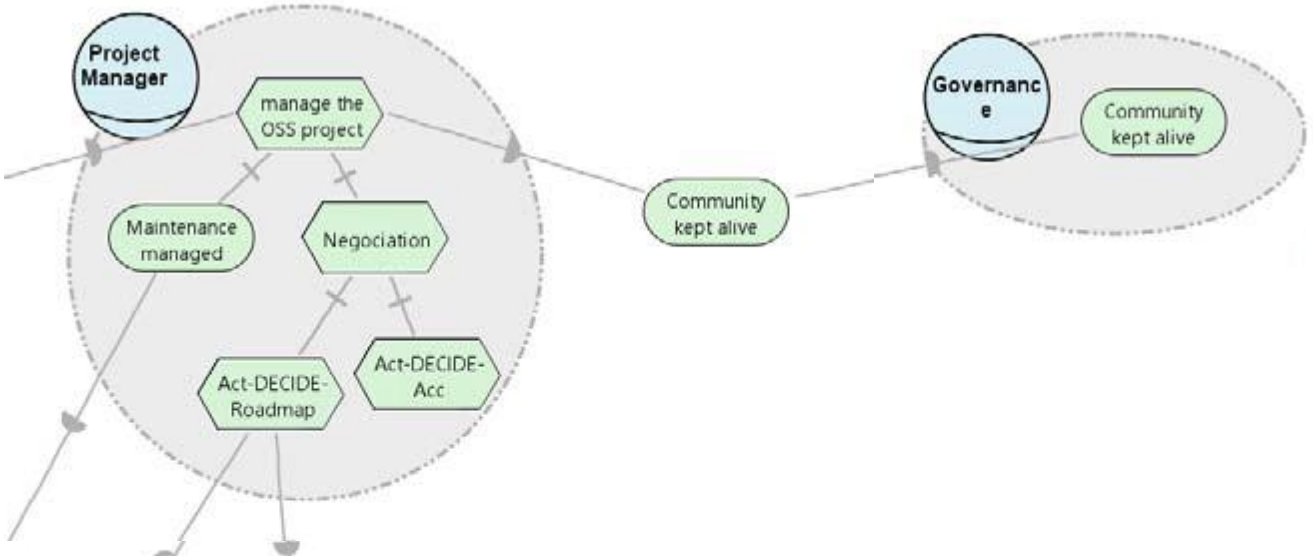
# Catalogue of Roles (excerpt)



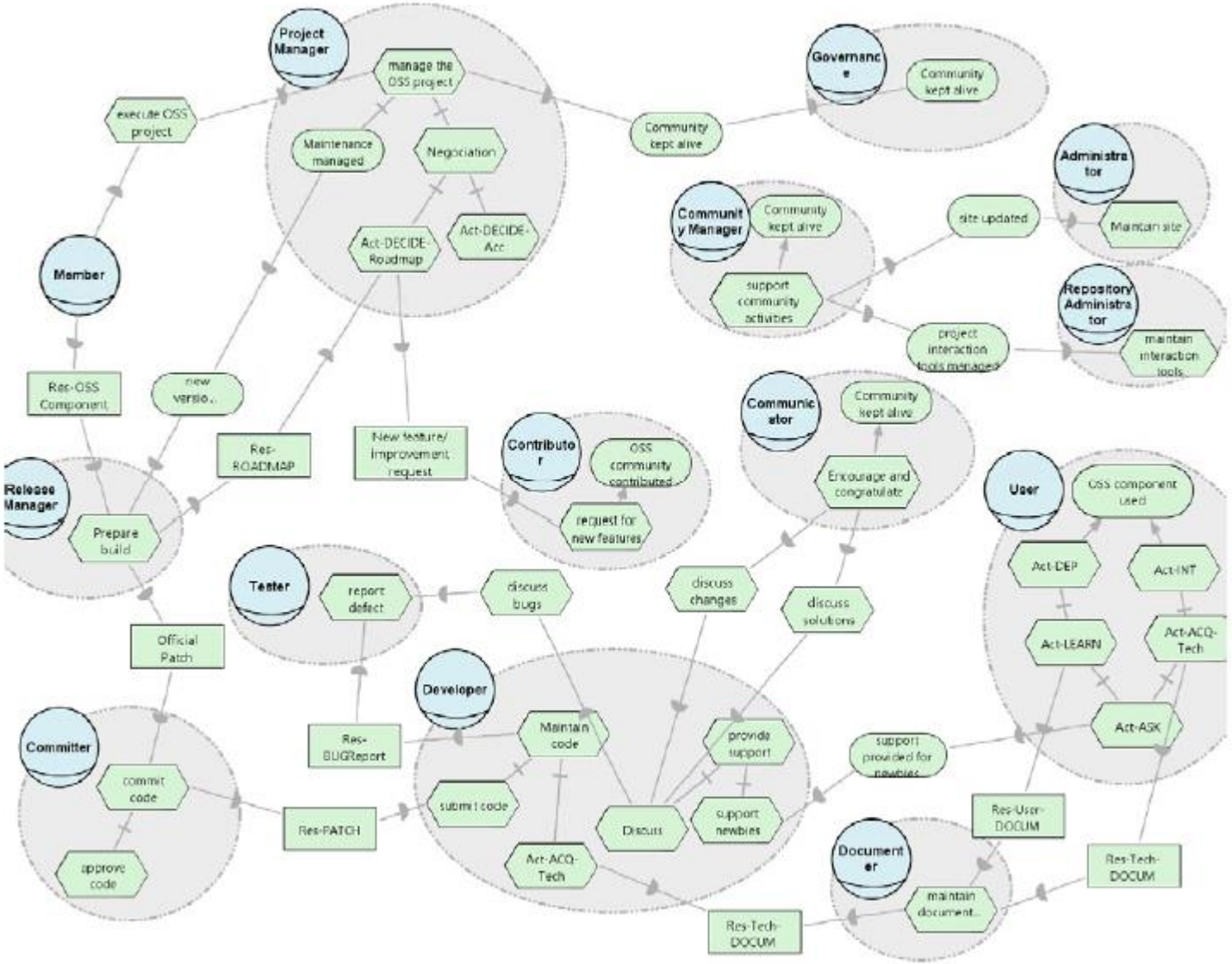
# Representation of Roles in *i**



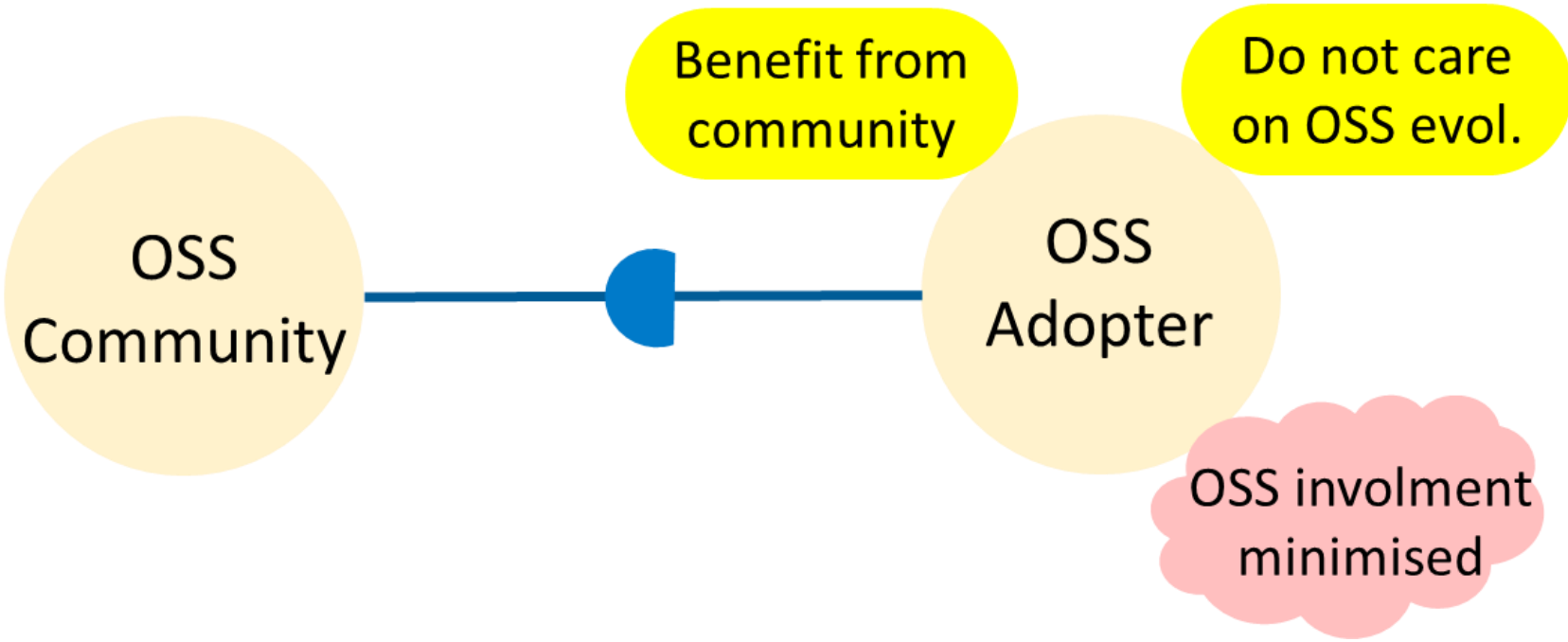
# SR diagrams for roles



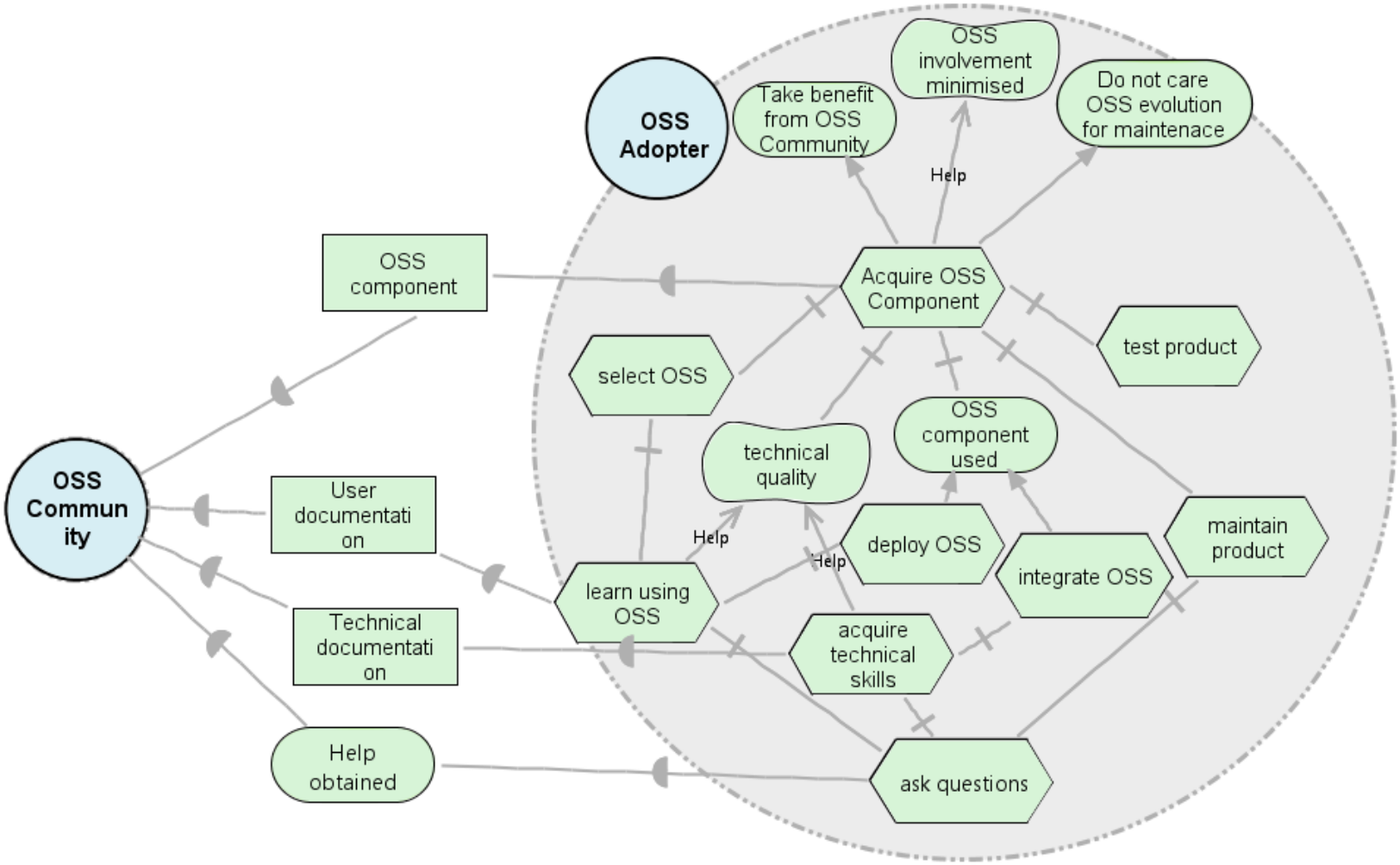
# The full ecosystem



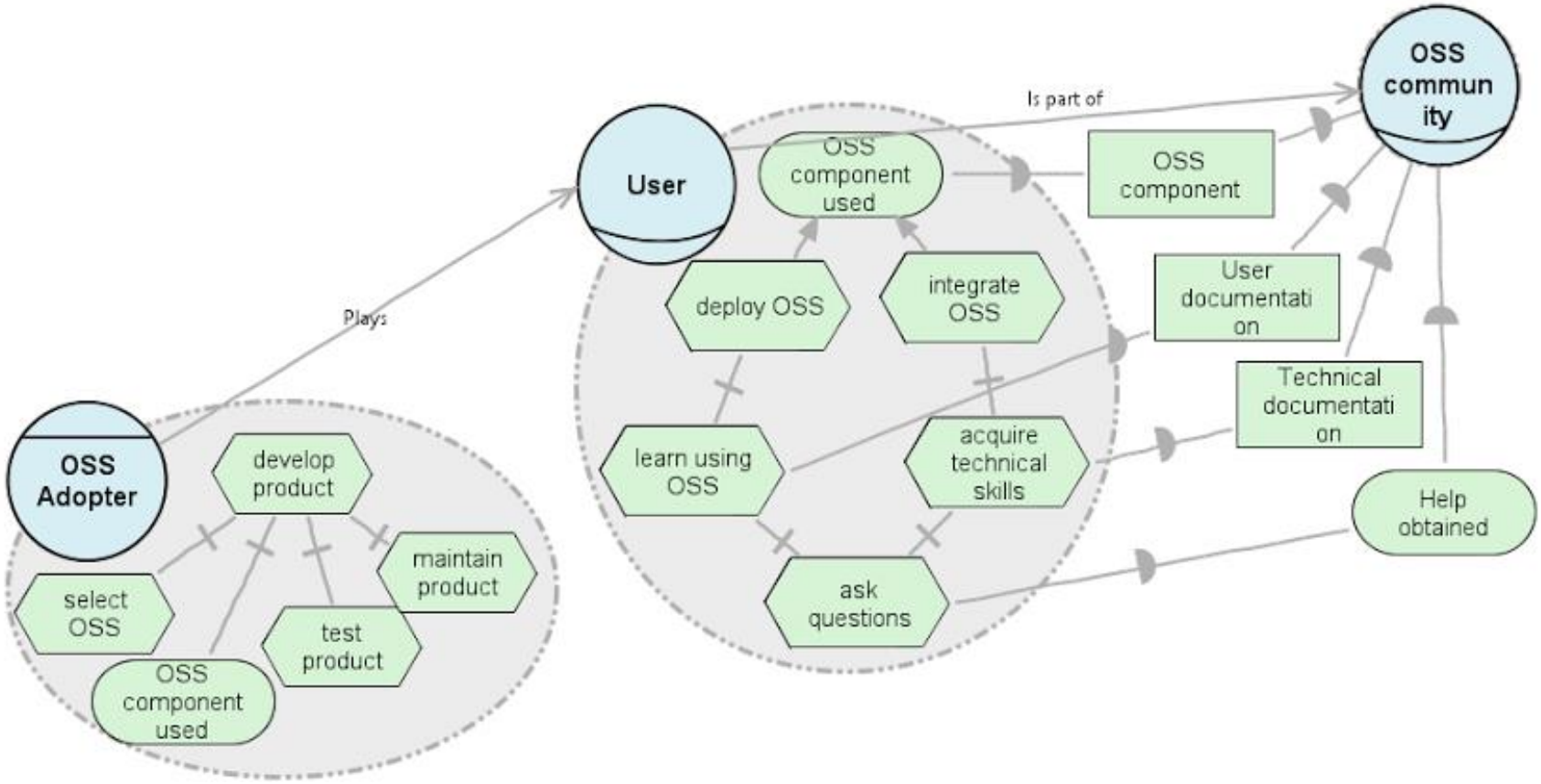
# Example: OSS acquisition



# Example: OSS acquisition (w/o)

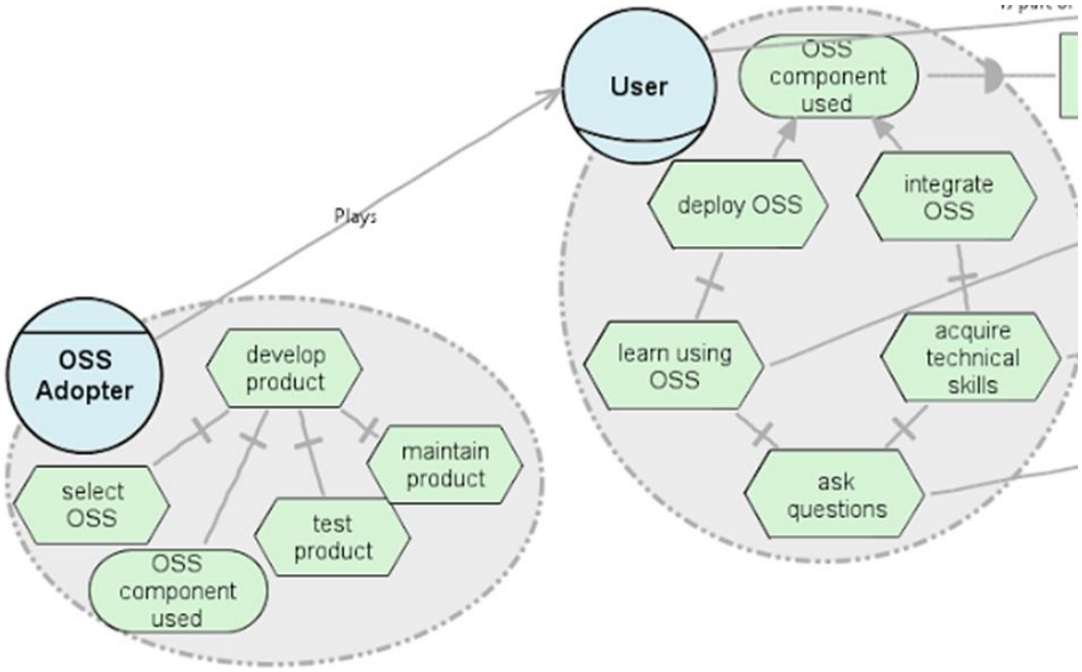


# Example: OSS acquisition (with)



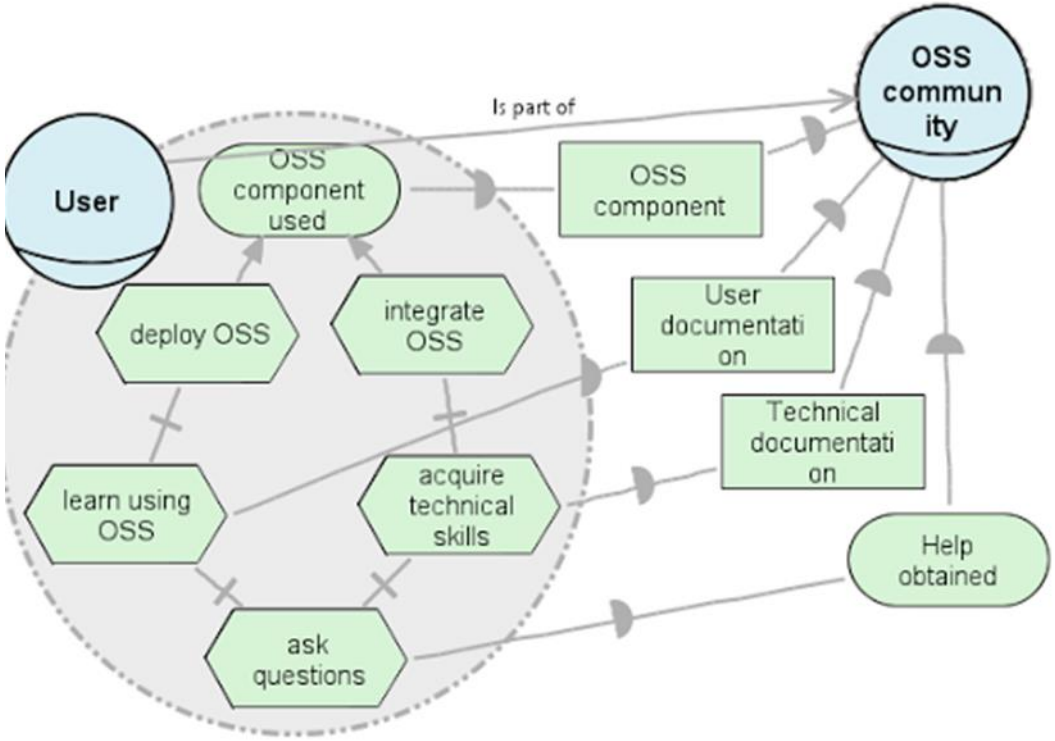
# Open Issues - 1

- Consequences of using *plays*
  - does the agent “inherit” all the intentional elements?
  - may the agent “discard” some of them?



# Open Issues - 2

- Cross-linked relationships among roles and agents
  - consequence of instantiation



# Open Issues - 3

- Is the current set of roles complete?
  - not all the goals of an adopter belong to some role
  - e.g., Acquisition strategy
    - Adopter goals include*: Take benefit from OSS Community*, *OSS involvement minimised, Do not care about OSS evolution for maintenance*
    - Adopter plays only the *User* role
    - *User* is played by several other strategies
    - Therefore, it cannot include the goals listed above which are not general (e.g., in the Integration strategy, adopter does not has the goals *OSS involvement minimised* and *Do not care about OSS evolution for maintenance*)

# Acknowledgments

# Hope you liked it!

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