

# QSOS

## Qualification and Selection of Software Open Source

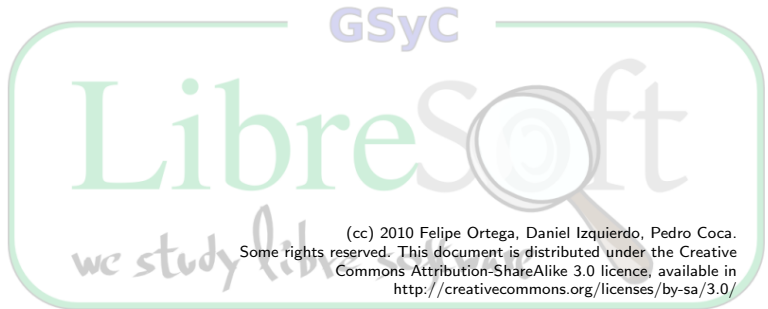
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# What is QSOS?

- QSOS Manifesto
  - Analyse needs and limitations in software adoption.
  - Evaluate functional and technical requirements.
  - Formalise a methodology.
  - Results reuse.
  - Provide a free method.
- Raphaël Semetey at Atos Origin release in 2004 the first official QSOS version: 1.3.
- Afert Re-licensing, additions and tranlations last released was done in 2006. QSOS 1.6.
- GNU Free Documentation License

# Target Audience of QSOS

- Standard Software Quality Methodologies audience.
- + FLOSS Communities / Actors.



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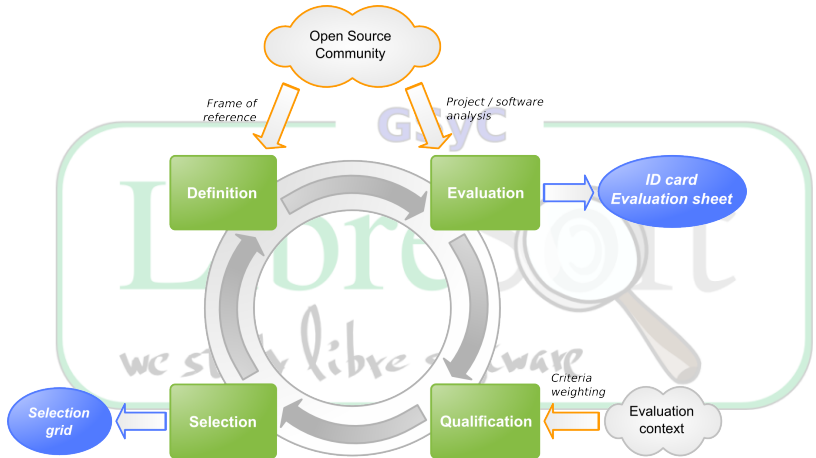
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# QSOS Process overview

- Four independents steps
  - Definition.
  - Evaluation.
  - Qualification.
  - Selection.
- Iterative process
- Tools provided
  - O3S: Open Source Selection Software.

# QSOS Process overview



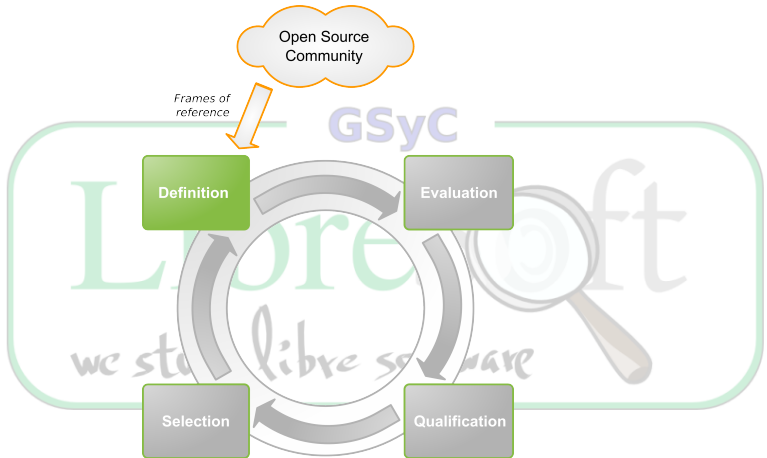


# QSOS Process: Definition

- Initial stage of the process.
- Define Frame of references.
  - Software Families.
  - Types of licenses.
    - Ownership.
    - Virality.
    - Inheritance.
  - Types of communities.
    - Insulated developer.
    - Group of developers.
    - Organization of developers.
    - Legal entity.
    - Commercial entity.

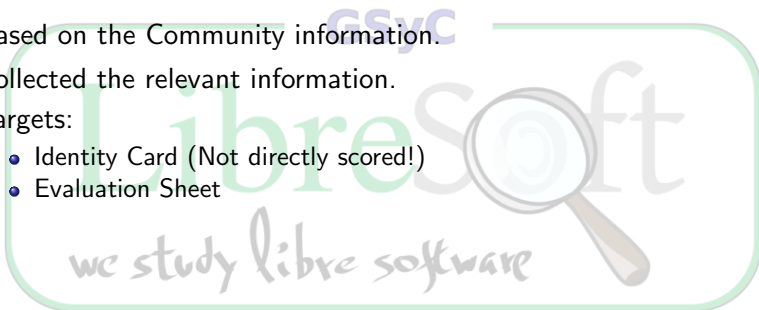


# QSOS Process: Definition



# QSOS Process: Evaluation

- Based on the Community information.
- Collected the relevant information.
- Targets:
  - Identity Card (Not directly scored!)
  - Evaluation Sheet



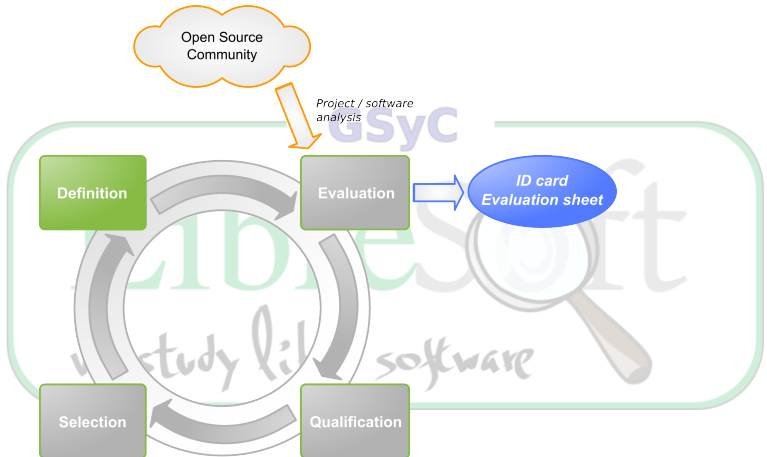
# QSOS Process: Evaluation

- Identity Card.
  - General Information
  - Existing Services
  - Functional and technical aspects
  - Synthesis
- Evaluation Sheet.
  - Functional Coverage
  - Risks (User's perspective)
  - Risks (Service provider's perspective)

# QSOS Process: Evaluation Sheet

- Scoring
  - Criteria: [0-2]
- Functional Coverage
  - Not Covered(0)/Partially Covered(1)/Completely Covered(2)
- Risks (User's perspective)
  - Intrinsic durability (Maturity, Adoption, etc)
  - Industrialised solution (Services, Documentation, etc)
  - Integration (Packaging, etc)
  - Technical adaptability (Modularity, code modification, etc)
  - Strategy (License, Copyright, Independence, etc)
- Risks (Service provider's perspective)
  - Services providing (Maintenability, Code expertise, etc)

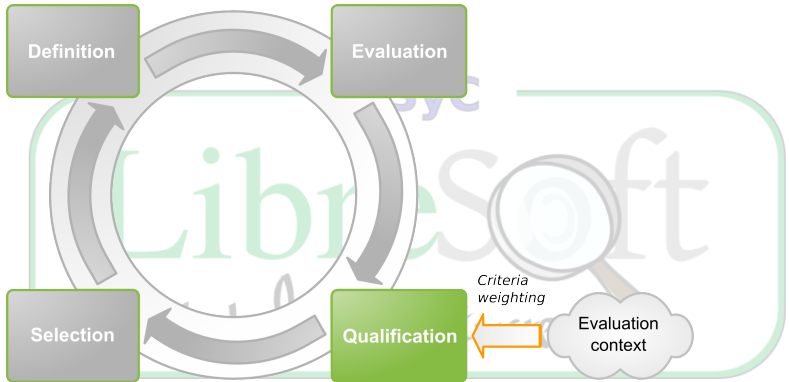
# QSOS Process: Evaluation



# QSOS Process: Qualification

- Define filters.
  - Take into account needs and limitations
  - Specific context!
- Filter on ID card.
- Filter on Functional grid.
  - Required functionality
  - Optional functionality
  - Not required functionality

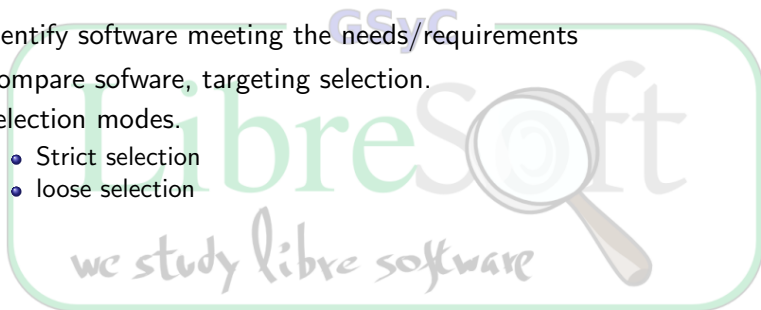
# QSOS Process: Qualification





# QSOS Process: Selection

- Identify software meeting the needs/requirements
- Compare software, targeting selection.
- Selection modes.
  - Strict selection
  - loose selection



# QSOS Process overview



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# References

- QSOS Website. <http://www.qsos.org>.
- O3S Tool <http://www.qsos.org/o3s/>
- QSOS Community Web Site  
<https://savannah.nongnu.org/projects/qsos/>

we study libre software