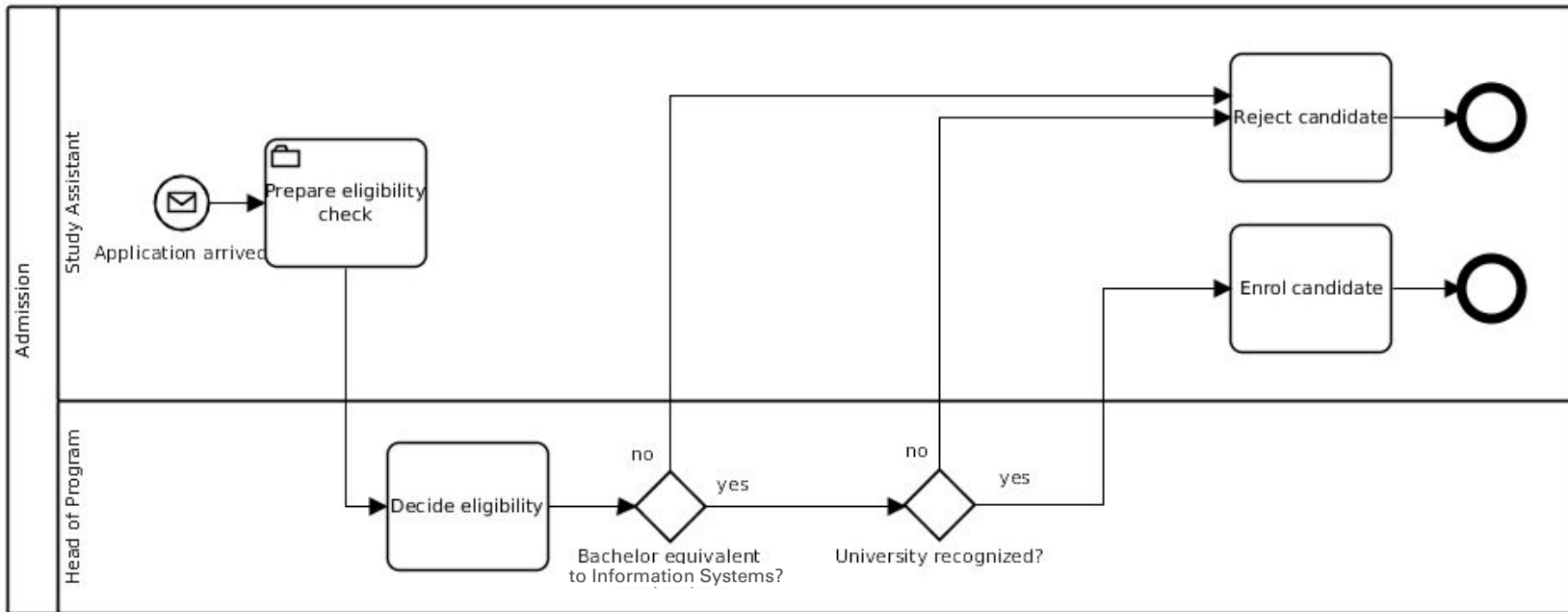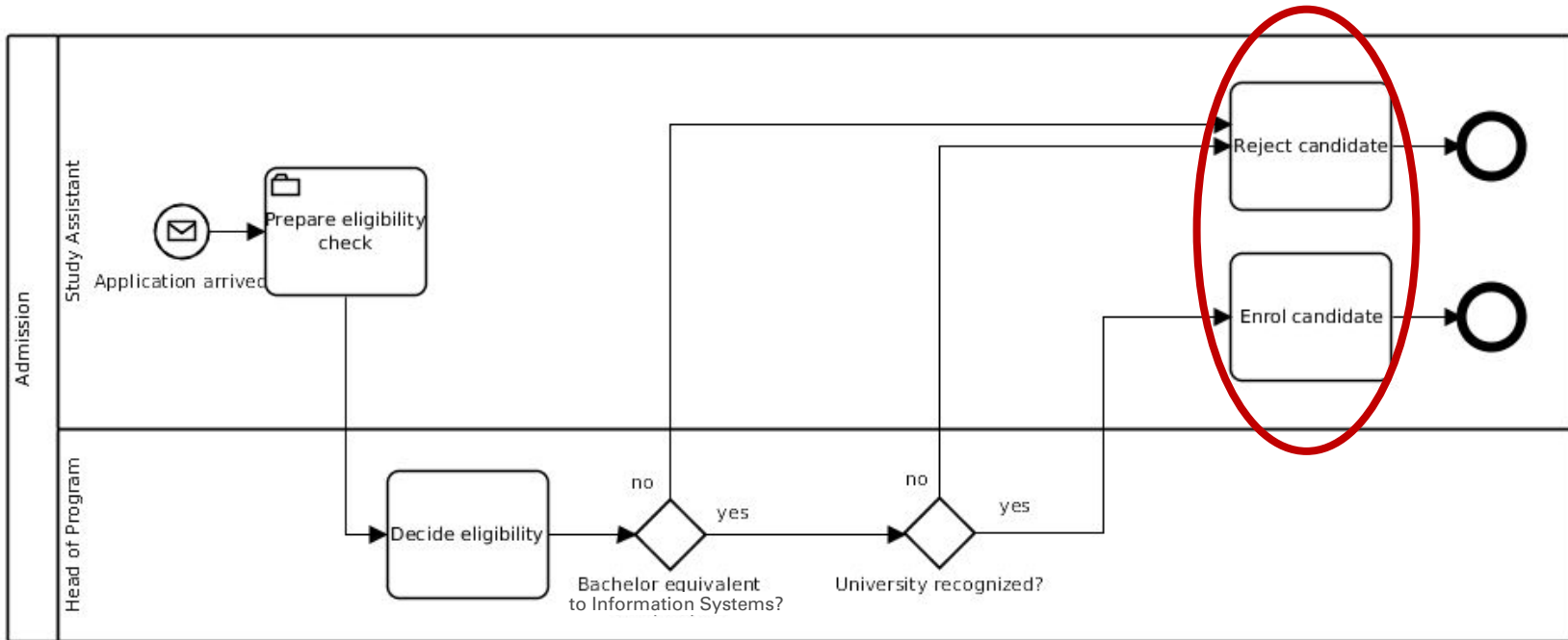# *Example:*
Decision-aware Process Models
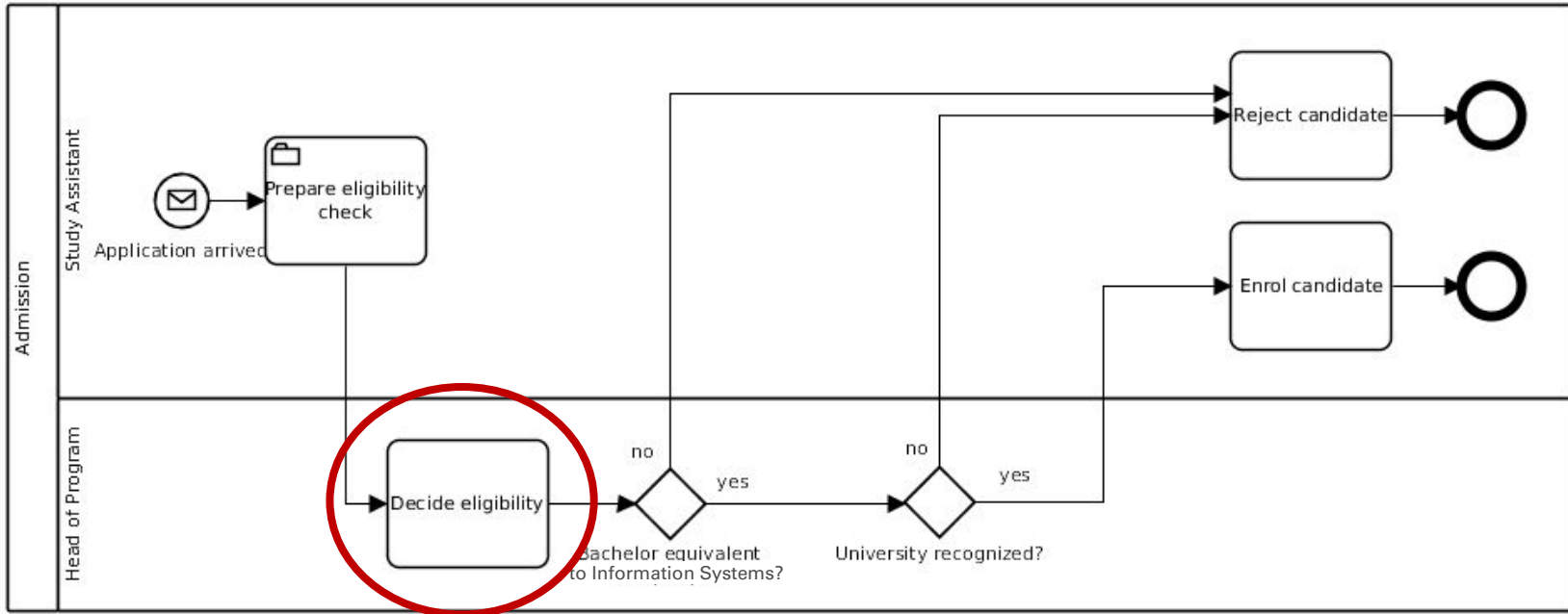
Example: Decisions in Processes

■ How many decisions are made in this process?

Example: Decisions in Processes

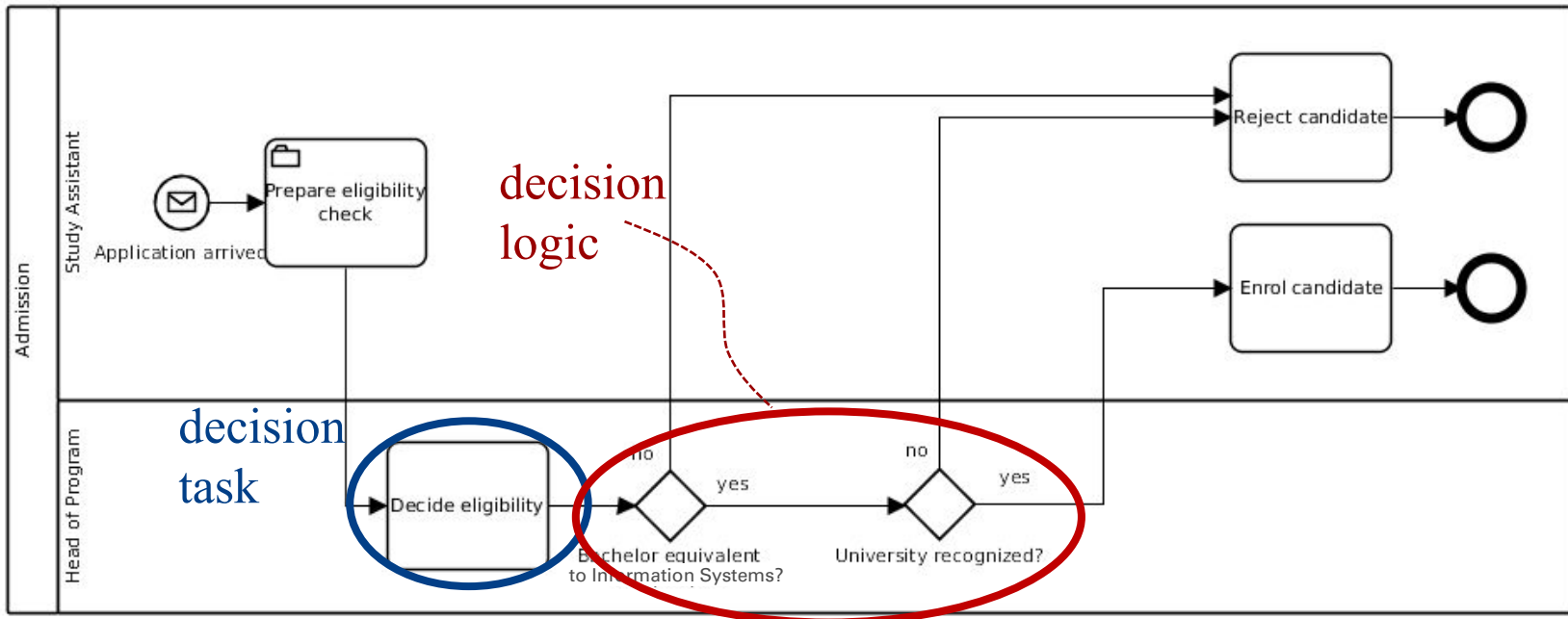- How many decisions are made in this process?

- This process contains one decision:

    1. Accept or reject application

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Example: Decisions in Processes

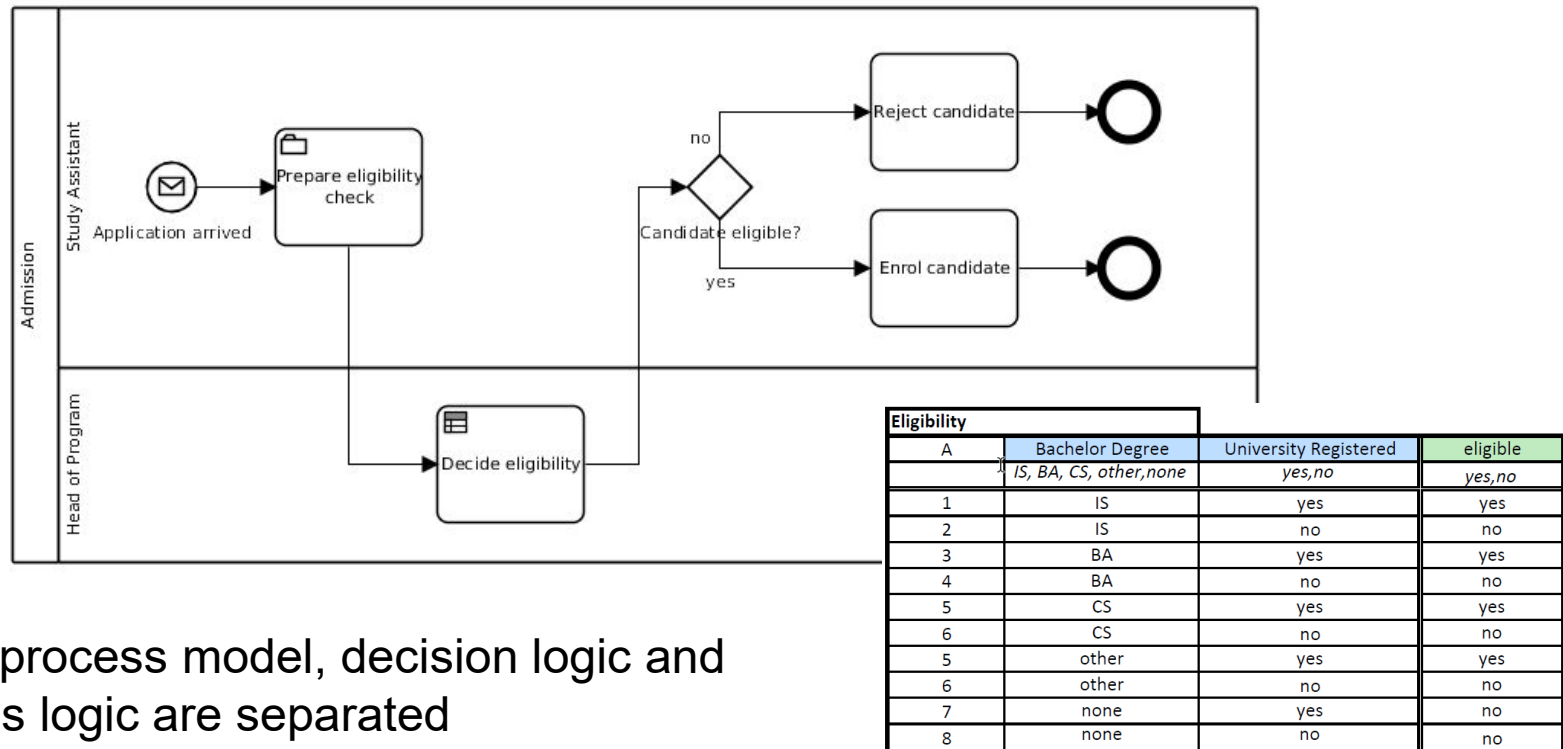
- What is the decision logic?
- Where is the decision made?
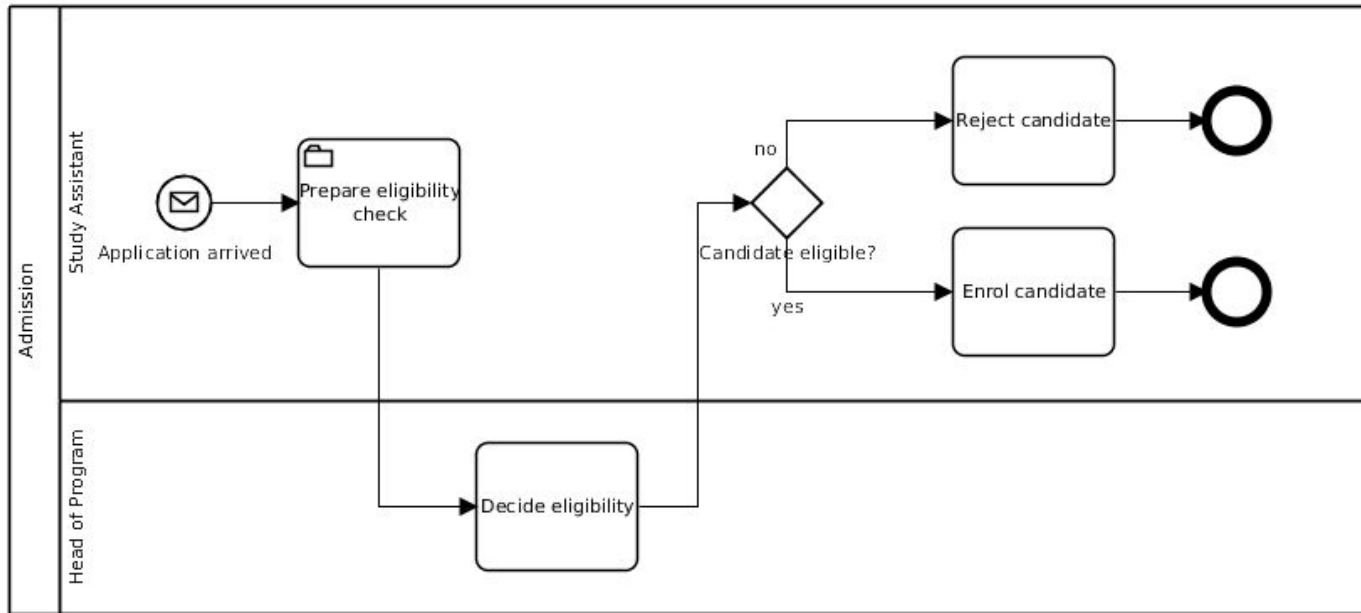
Example: Decisions in Processes

- The decision is made in the task «Decide eligibility»,
- Gateways are not active, they cannot make decision, only check for values of data
- The gateways should only refer to the result of the decision, but not represent the decision logic

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Decision-Aware Business Process Model

Eligibility			
A	Bachelor Degree	University Registered	eligible
	IS, BA, CS, other,none	yes,no	yes,no
1	IS	yes	yes
2	IS	no	no
3	BA	yes	yes
4	BA	no	no
5	CS	yes	yes
6	CS	no	no
5	other	yes	yes
6	other	no	no
7	none	yes	no
8	none	no	no

- In this process model, decision logic and process logic are separated
  - ♦ The process model only contains the process flow
  - ♦ The decision logic is not visible.
- The decision logic, i.e. the criteria for the decision
  - ♦ can be modelled separately, for example in a decision table or as decision rules.
  - ♦ and assigned to the task «Decide eligibility".

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Decision-Aware Business Process - Advantage

- ■ Separating business logic from process logic has several advantages, e.g.
    - ♦ allows much simpler business processes
    - ♦ Separation of concerns: permits changes of the decision criteria without changing the business process model and vice versa.

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Disadvantage of modeling decision in the business process

- Disadvantage of representing decision logic in the questions of gateways:
  - Unmeaningful complexity of business process models
  - any change of the decision criteria requires a change of the business process model, e.g. when adding new decision criteria

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