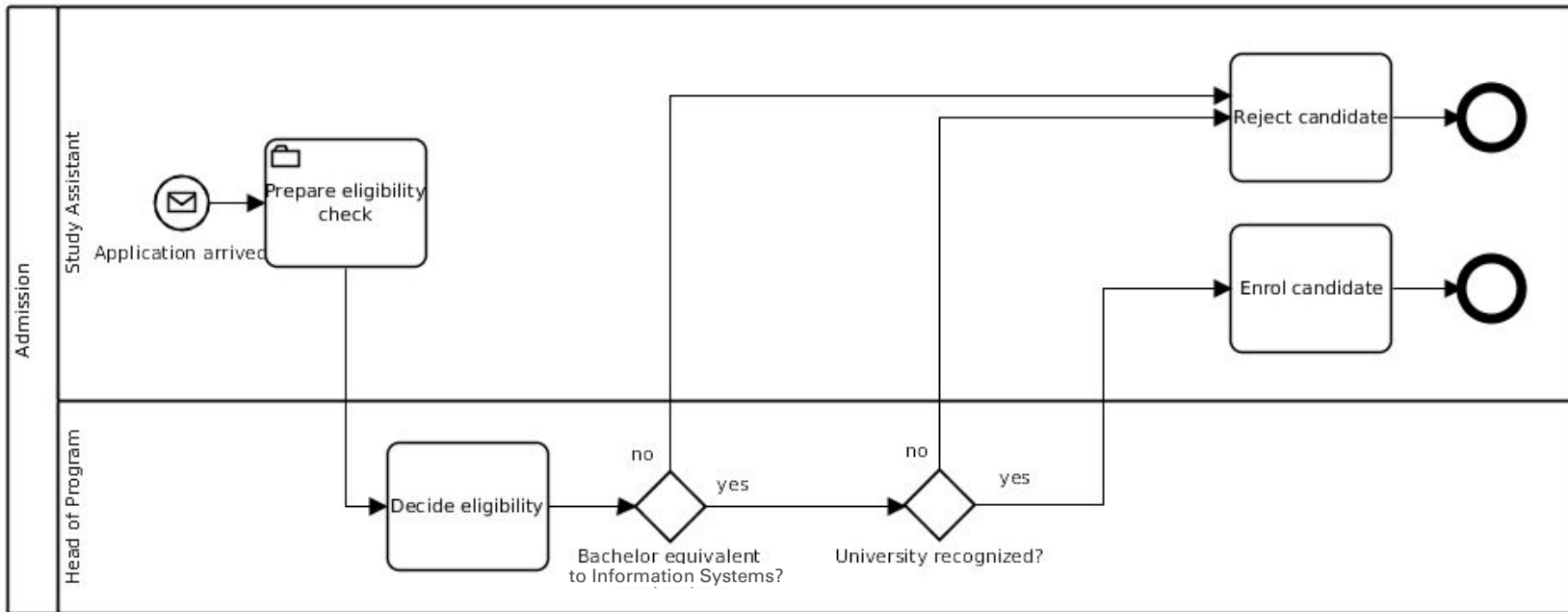# *Example:*
Decision-aware Process Models
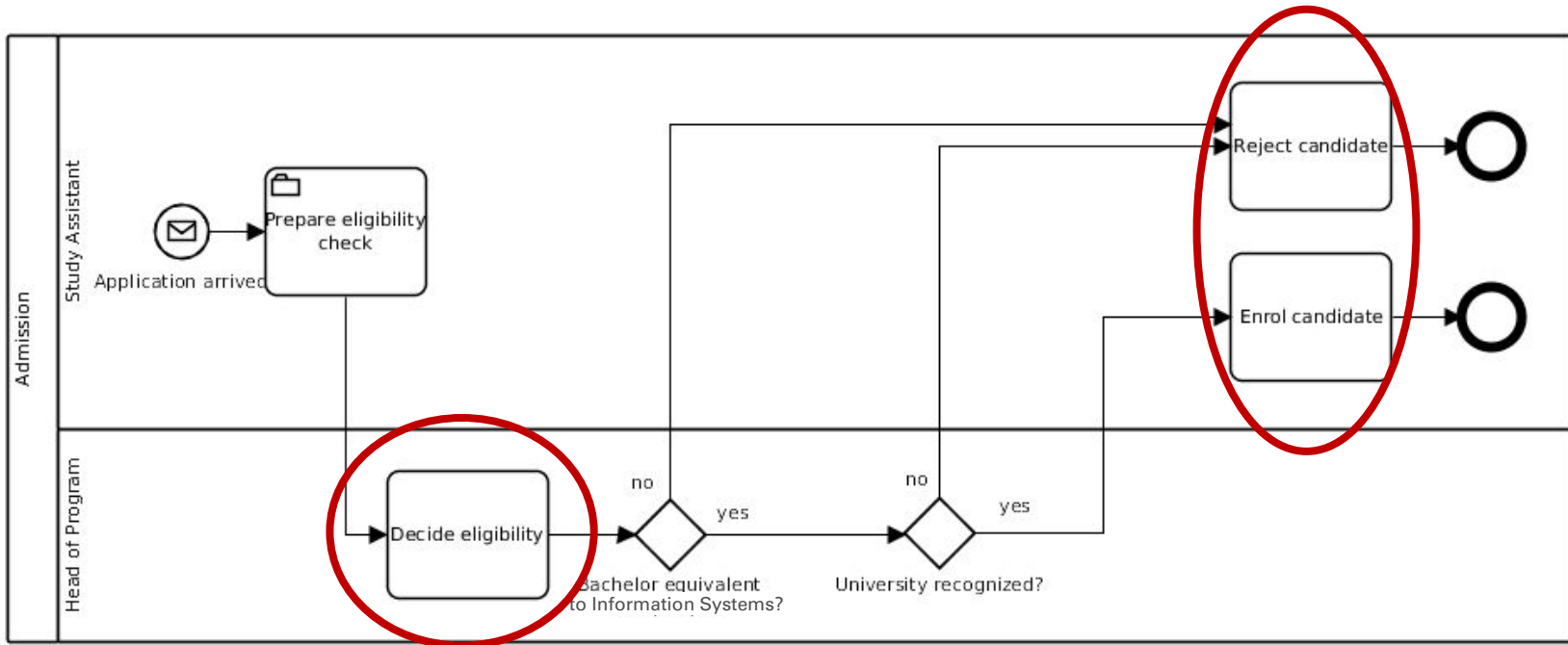
Example: Decisions in Processes
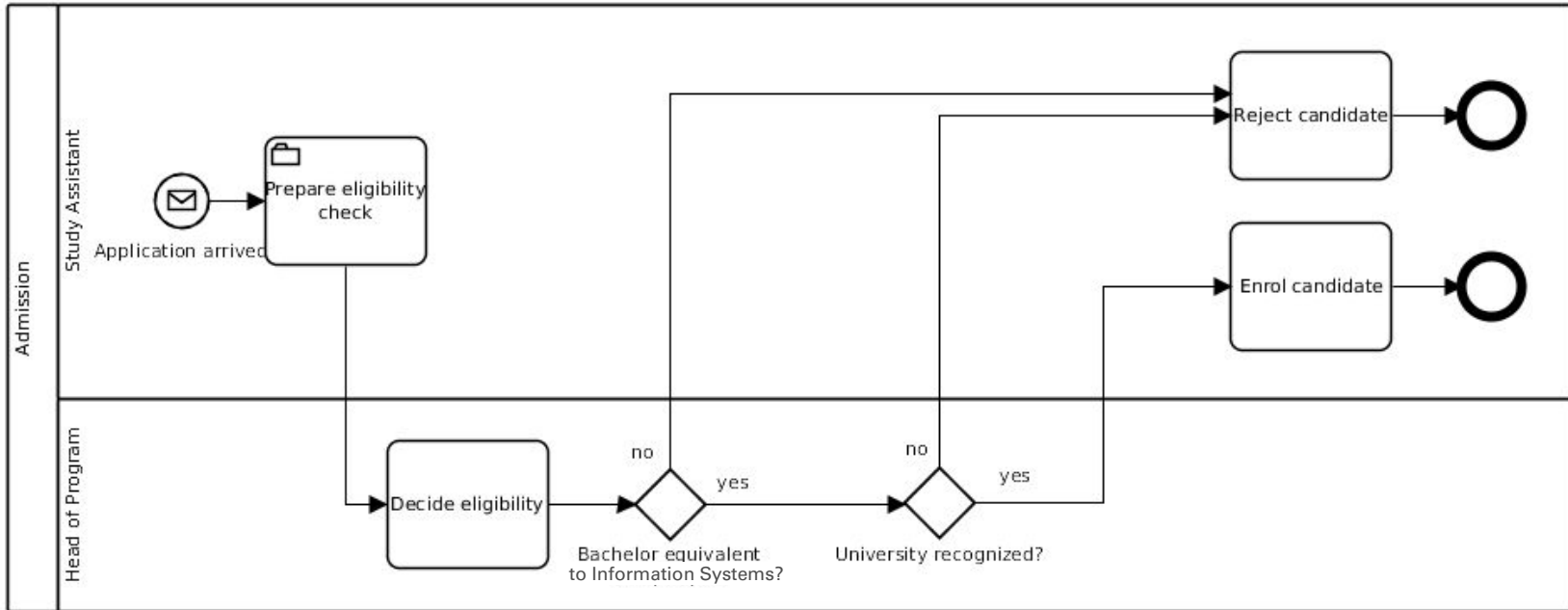

- How many decisions are made in this process?

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Example: Decisions in Processes
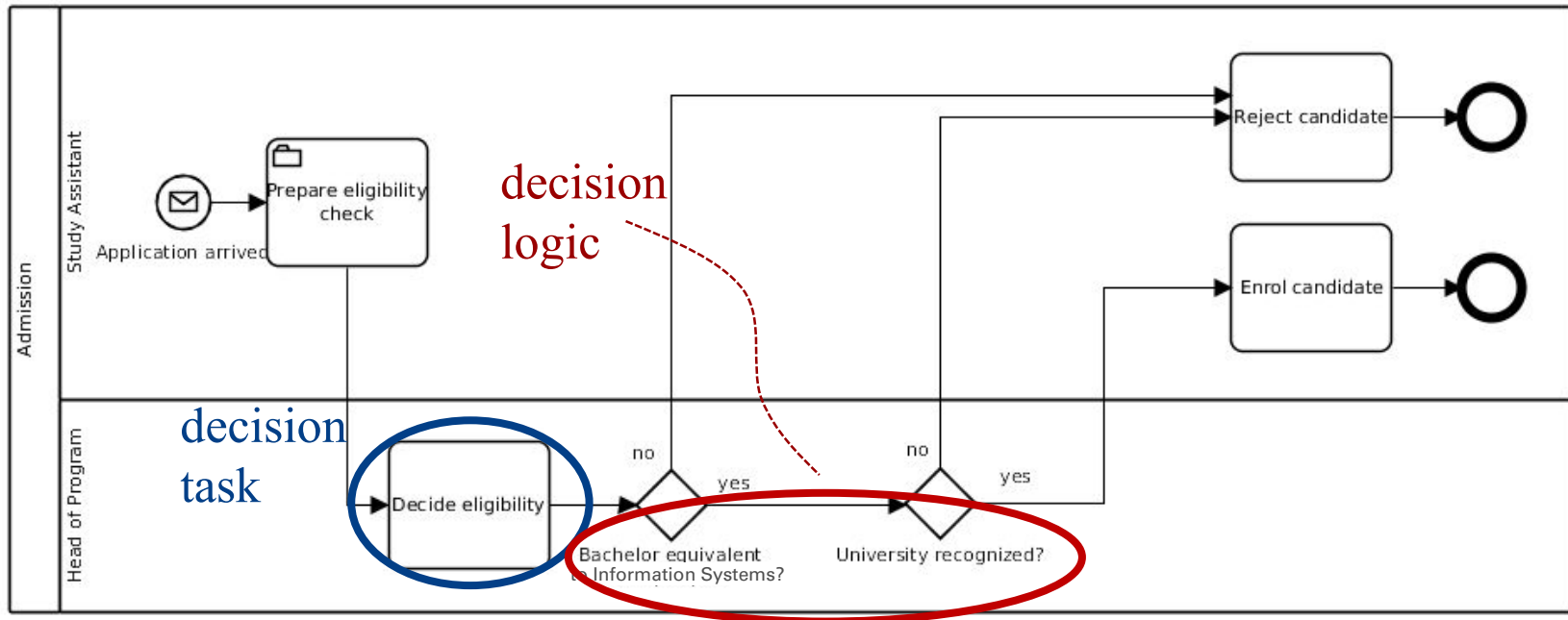

- How many decisions are made in this process?

- 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?

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Example: Decisions in Processes

- The decision logic is presented as questions at the gateways

- The decision is made in the task «Decide eligibility»,

- Gateways are not active, they cannot make decision, only check for values of data

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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
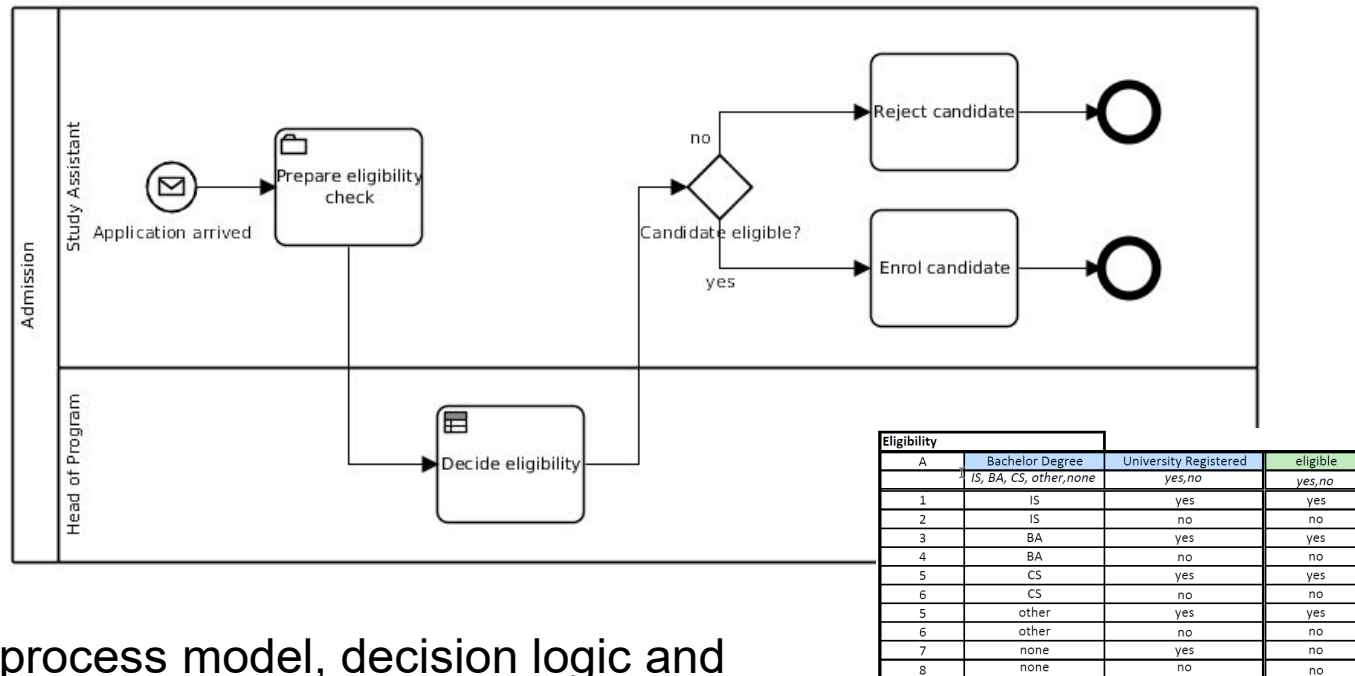
- In this process model, decision logic and process logic are separated

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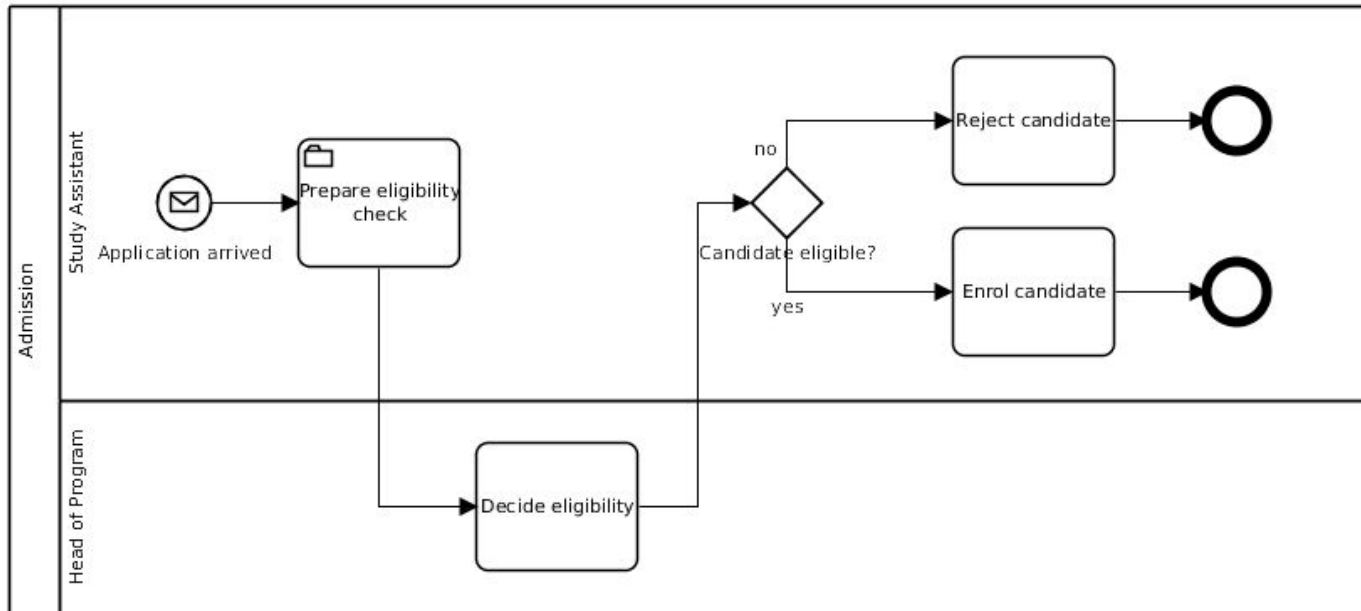
- **Separating business logic from process logic has several advantages, e.g.**
  - ♦ allows much simpler business processes
  - ♦ Separation of concerns: permits changes of the decision criteria without changing the business process model and vice versa.

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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