

Adonis Tutorial



Adonis

The integrated Business Process Management and Knowledge toolkit from BOC GmbH.

ADONIS offers you a wide-range of various functionalities in the following operational areas:

E-Business:

E-business application development, as well as constant and integrated modelling of business models, Business Processes, products, IT systems and IT infrastructures.

Business process management:

Acquisition, modelling, analysis, simulation, evaluation, documentation and realisation of Business Processes.

Process-based application development:

Application development with workflow, CASE-, groupware and object technology as well as process-based introduction of standard software.

Process Warehouses:

Operational data management and Evaluation based on business process and integrated solutions with different workflow products .

Knowledge management - Training and Learning:

Production of training supports through graphic models and process orientated knowledge management.

ADONIS is a client/server multi-user system, which has an object-oriented structure. Additionally, **ADONIS** has a remarkable adaptation possibility, so it can be configured according to your needs and developed according to your requirements(ADONIS-customising)".

Business Process Management

- The goals of **Business Process Management** are the optimization of both the processes of an enterprise, as well as the resources and technology which execute those processes.
- Business Process Management Toolkit consists of 3 basic components:
 - a. Modelling
 - b. Analysis
 - c. Simulation
 - d. Export/Import

Business Process Management Toolkit Basic Components (1/2)

Modelling

The Modelling component is the heart of the ADONIS Business Process Management toolkit. The Modelling component allows you to build the models you require (e.g. Business Process or Working Environments). You can create and amend your own models (and the attribute values of the objects used) using the graphical editor (**model editor**) provided. Additionally, it is also possible to input attribute values through a tabular view of the model.

Analysis

Within the Analysis component, **queries** on your ADONIS models can be run and **relation tables** or **predefined charts** can be produced. Both predefined and user-definable queries are provided in ADONIS. The query language in ADONIS is AQL (AQL = **ADONIS Query Language**). Creation of queries will be defined by the ADONIS Administrator, and will be provided to an ADONIS User.

The results of a query can be displayed either as a table or graphically. The results can also be exported to an ASCII file. In this way you can process the results further in another application (e.g. spreadsheet, word processor etc.).

An **Analytical Evaluation** of Business Process models can also be carried out.

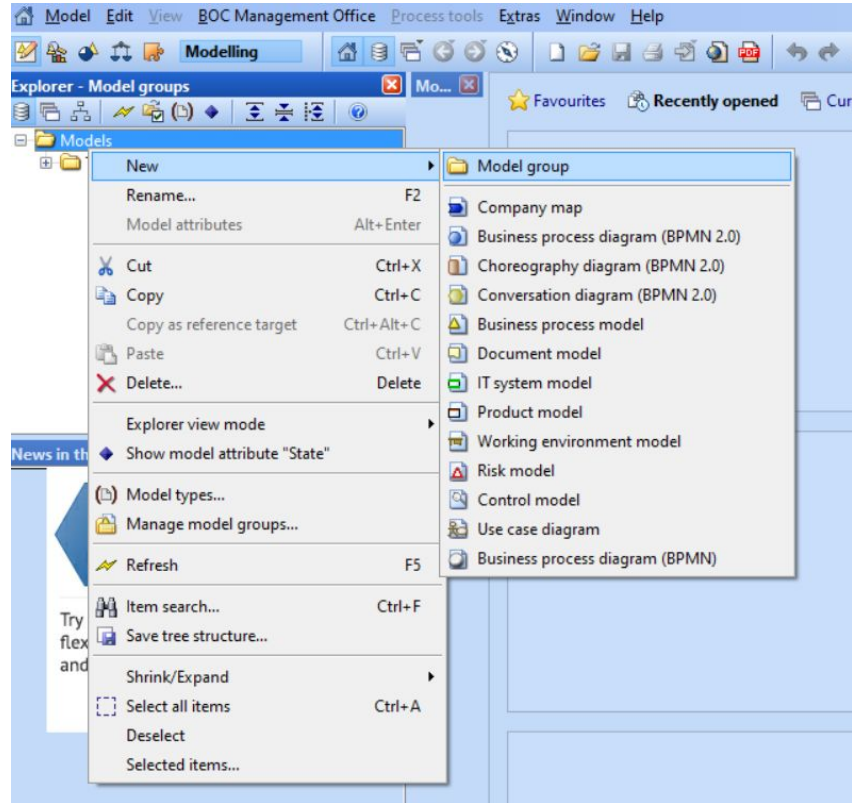
Business Process Management Toolkit Basic Components (2/2)

Simulation

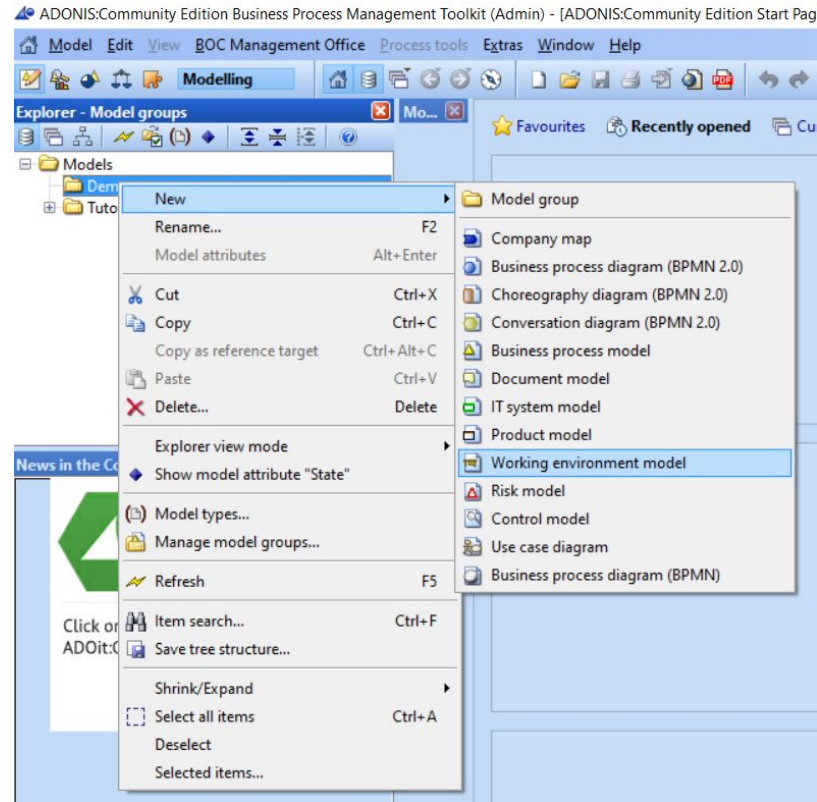
The Simulation of Business Processes and Working Environments is executed in the Simulation component. Four Simulation algorithms are available in ADONIS: **path Analysis** simulates the Business Process models, only while the **capacity Analysis**, **workload Analysis (steady state)**, and **workload Analysis (fixed time period)** simulate the Business Process models AND the corresponding Working Environment models.

Modeling

Create Model Group

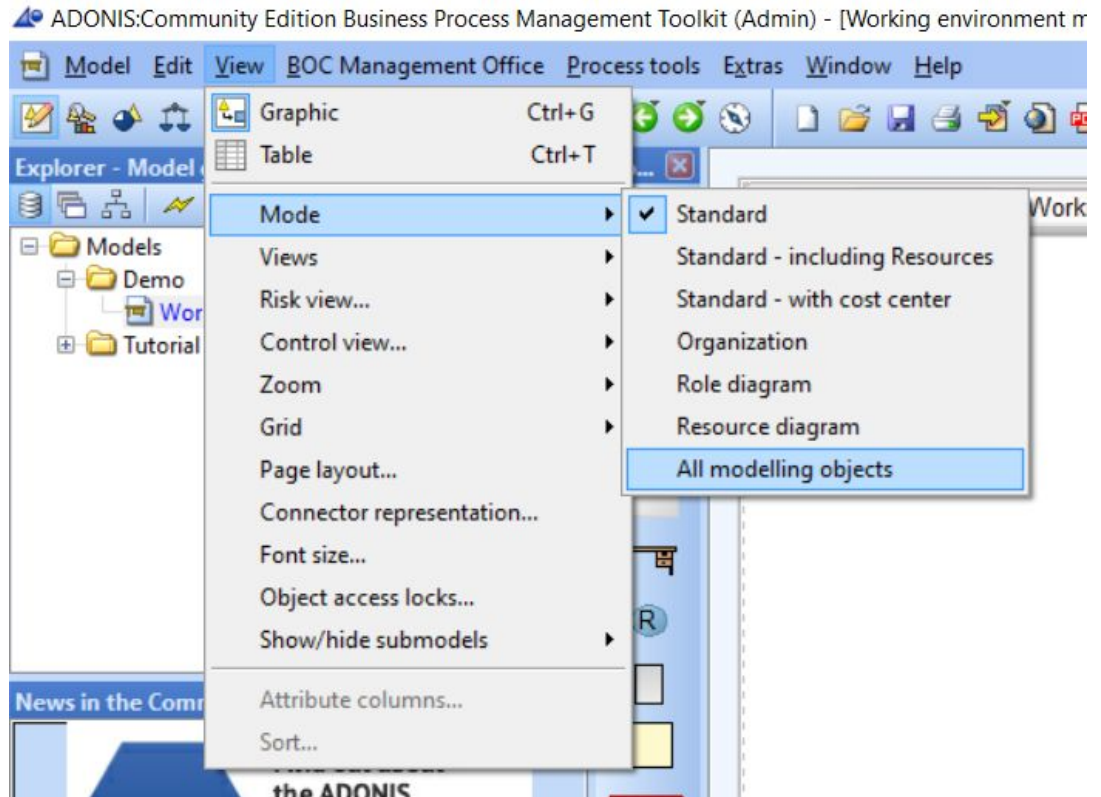


Create Working Environment Model



IMPORTANT

- Do it in **every** file to unlock all the suitable functionalities



Create Lanes

The screenshot displays the ADONIS:Community Edition Business Process Management Toolkit (Admin) interface. The main window shows a process diagram titled "Working environment model - new" with three lanes: "Student Lane", "Secretary Lane", and "Rector Lane". The interface includes a menu bar (Model, Edit, View, BOC Management Office, Process tools, Extras, Window, Help), a toolbar, and a left sidebar with an Explorer and a "News in the Community" section. The Explorer shows a tree view of Models, including "Demo", "Working environment model - new", and "Tutorial models". The "News in the Community" section features a promotional image for "ADONIS Professional" with the text "Take BPM to the next level" and a "DETAILS" button.

ADONIS:Community Edition Business Process Management Toolkit (Admin) - [Working environment model - new (Working environment model) *]

Model Edit View BOC Management Office Process tools Extras Window Help

Modelling

Explorer - Model groups Mo...

Models

- Demo
- Working environment model - new
- Tutorial models

News in the Community

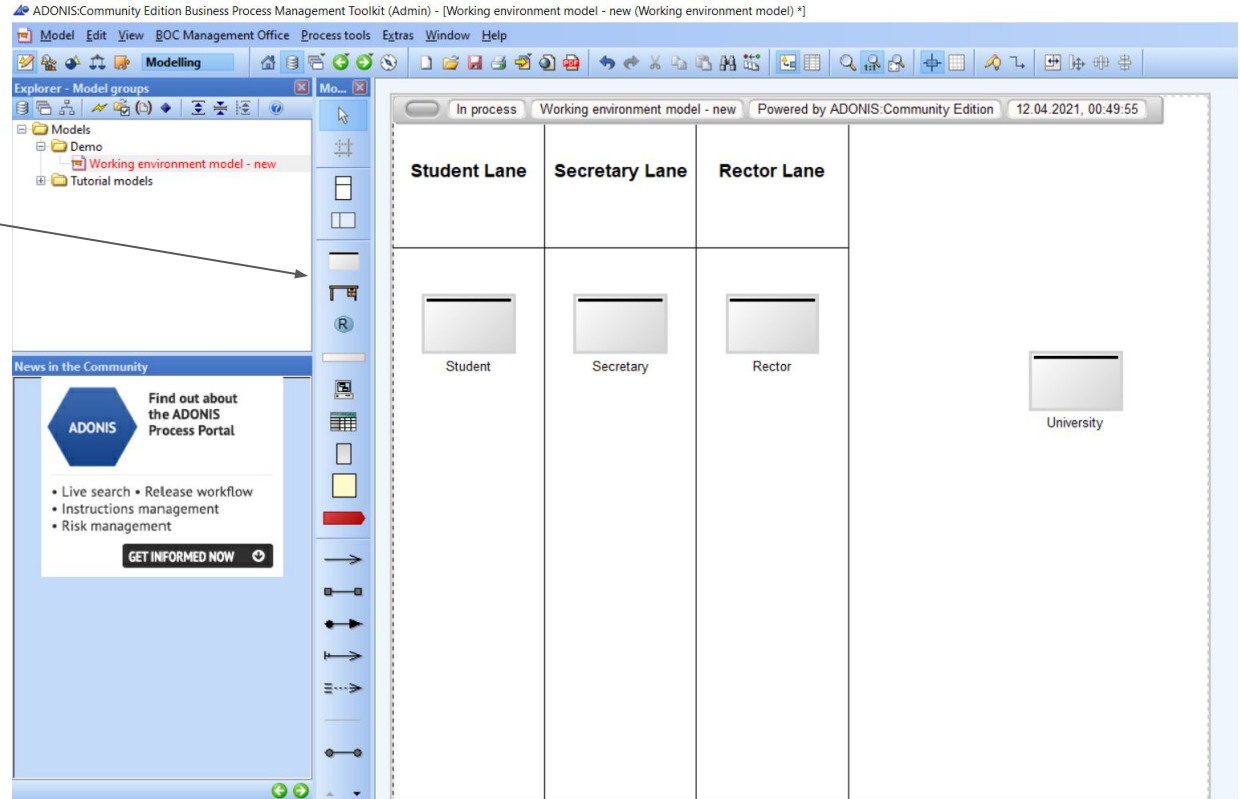
ADONIS Professional
Take BPM to the next level
DETAILS

In process Working environment model - new Powered by ADONIS:Community Edition

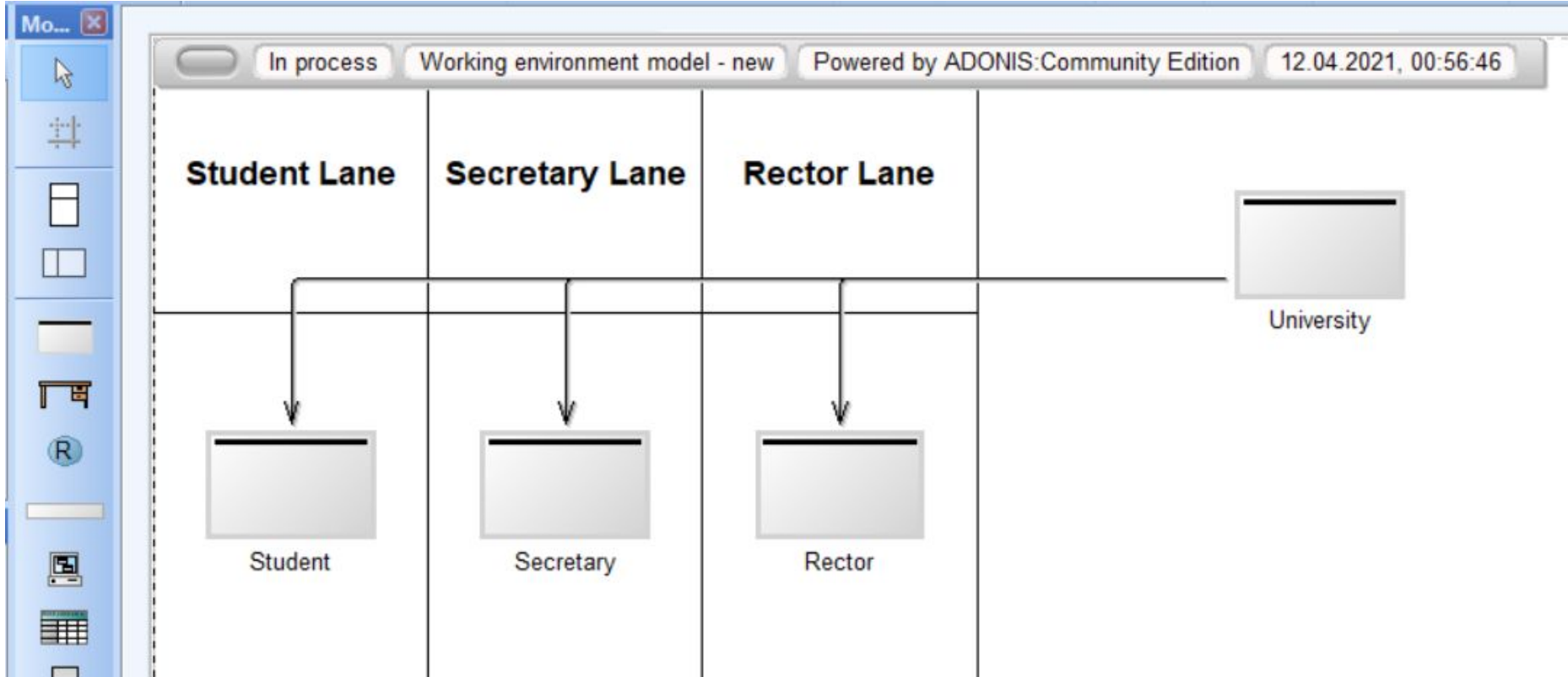
| Student Lane | Secretary Lane | Rector Lane |
|--------------|----------------|-------------|
| | | |

Create Organizational Units

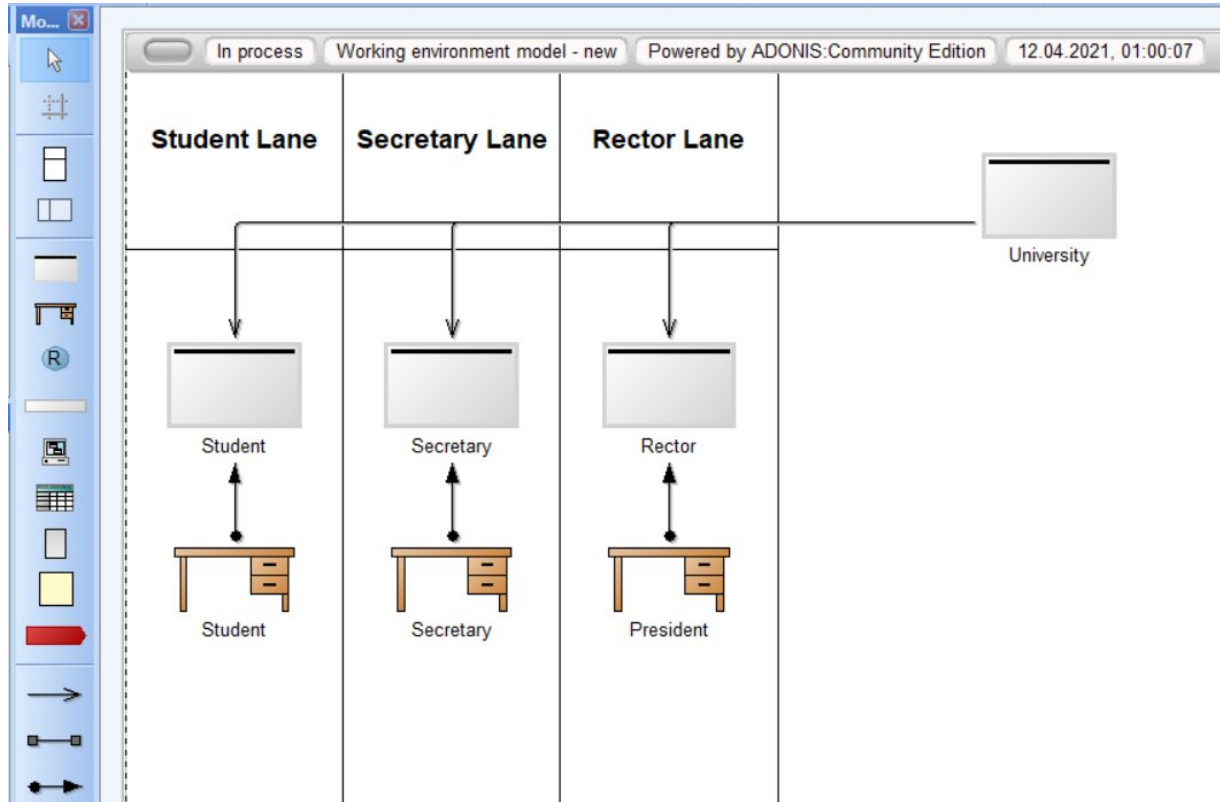
- Choose **left Palette** with symbols, arrows etc



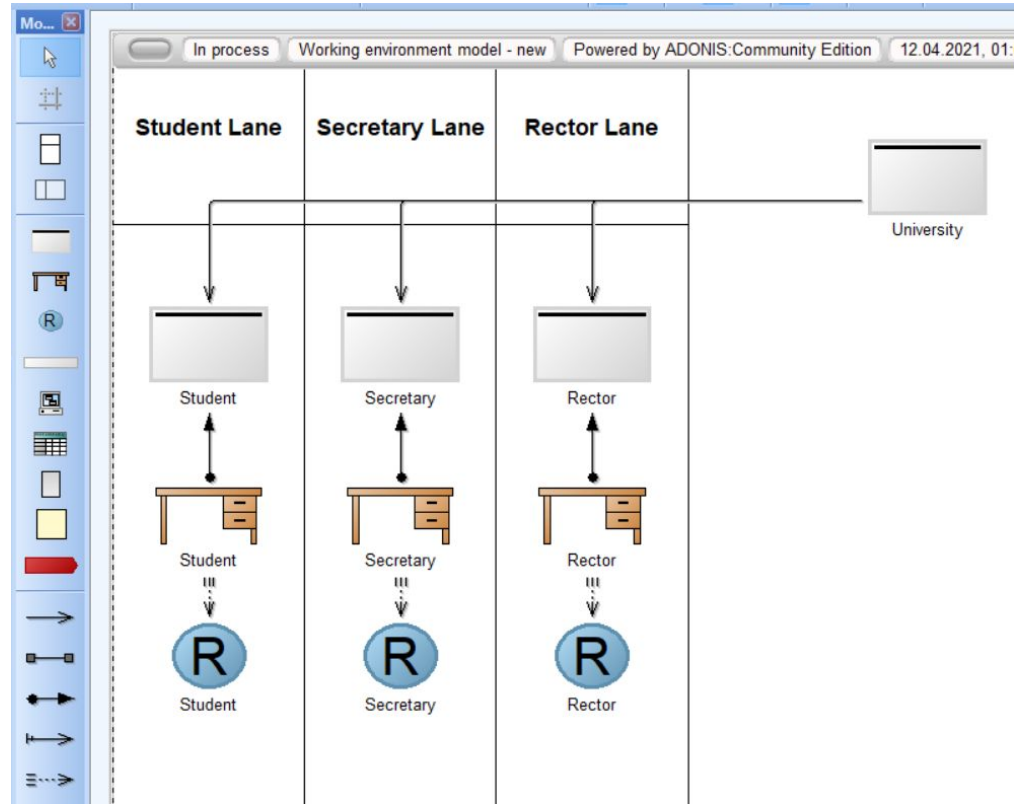
Connection with University



Add Performers

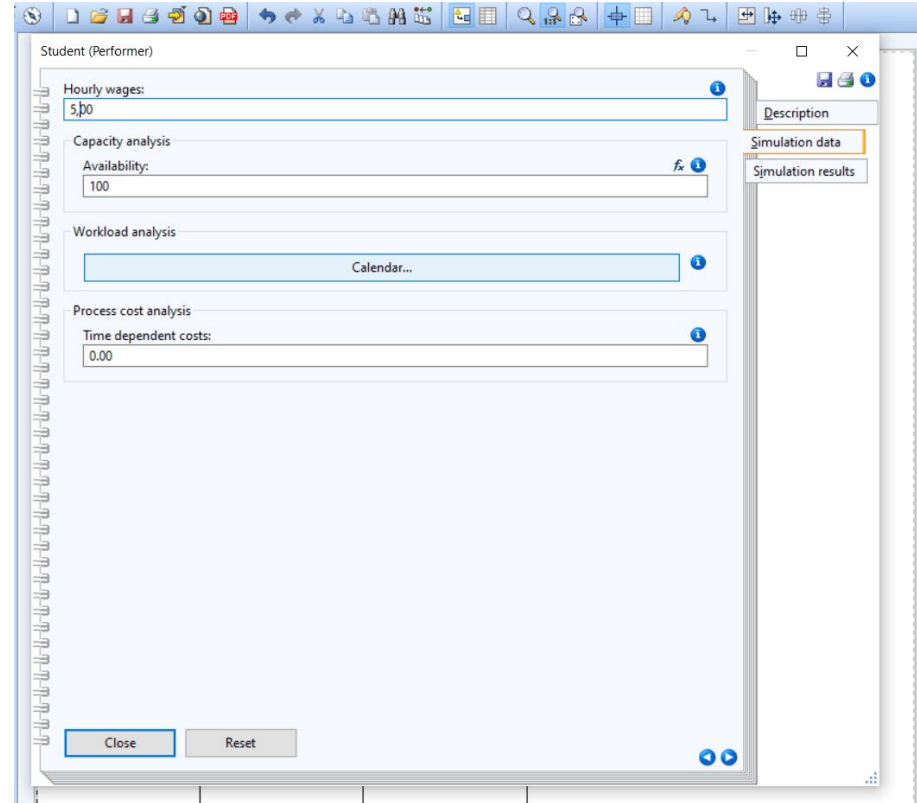


Add Roles

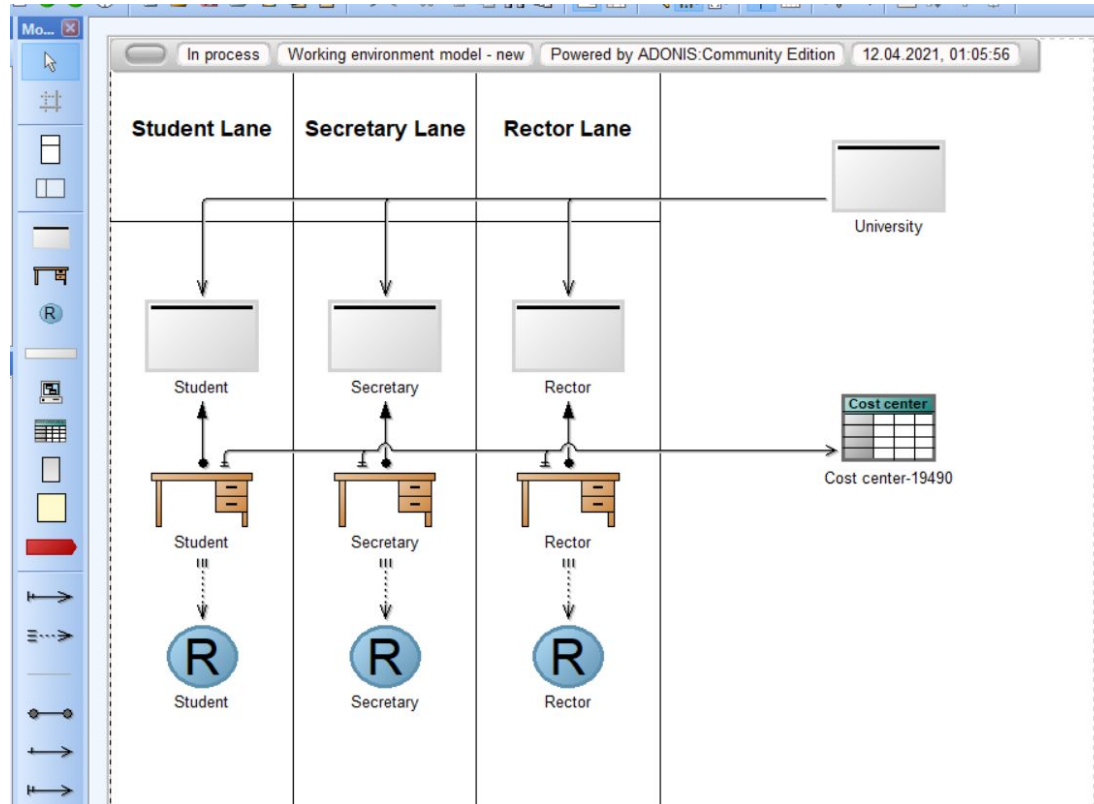


Performers' Settings

- Double-click a performer
- Choose hourly-wages and availability
- Repeat for each performer
- Change availability and hourly-wages for optimization purposes



Adding Cost Center



Cost Center's Setting

- Choose budget

Cost center-19490 (Cost center)

Budget: 1000

ON processes

ON time: 00:00:00:00:00

ON fixed costs: 0.00

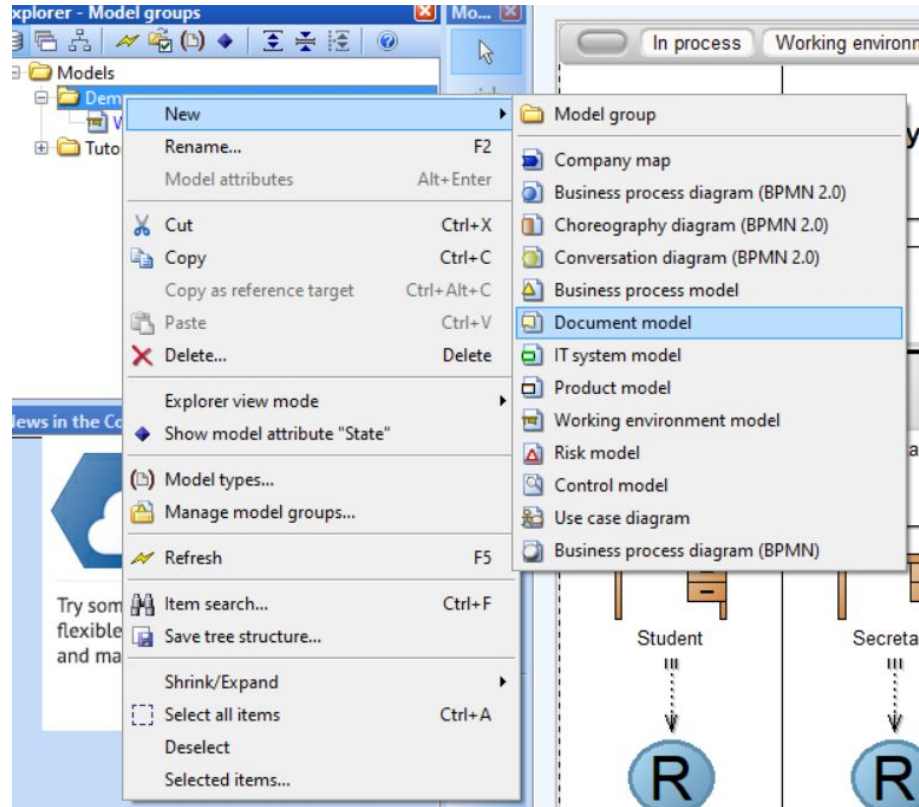
ON processes:

Description

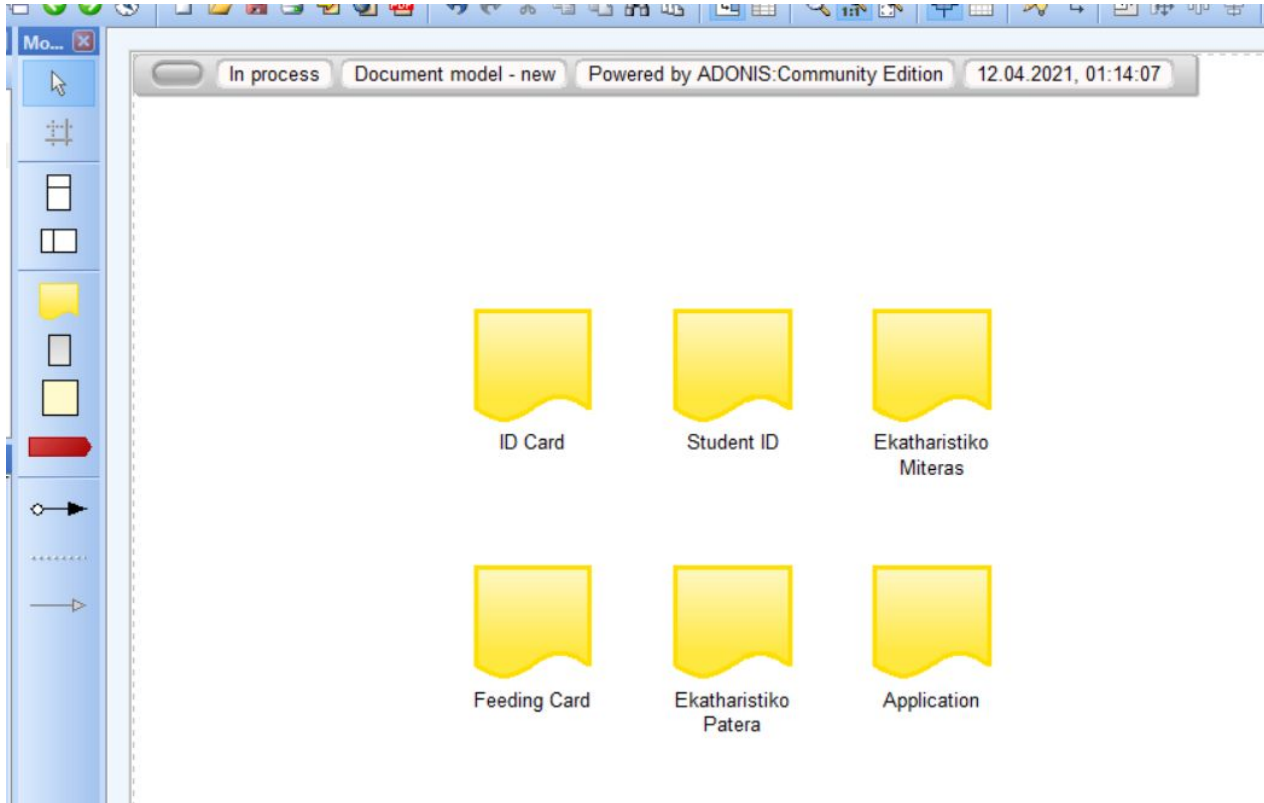
Data for analysis

Close Reset

Create Document Model

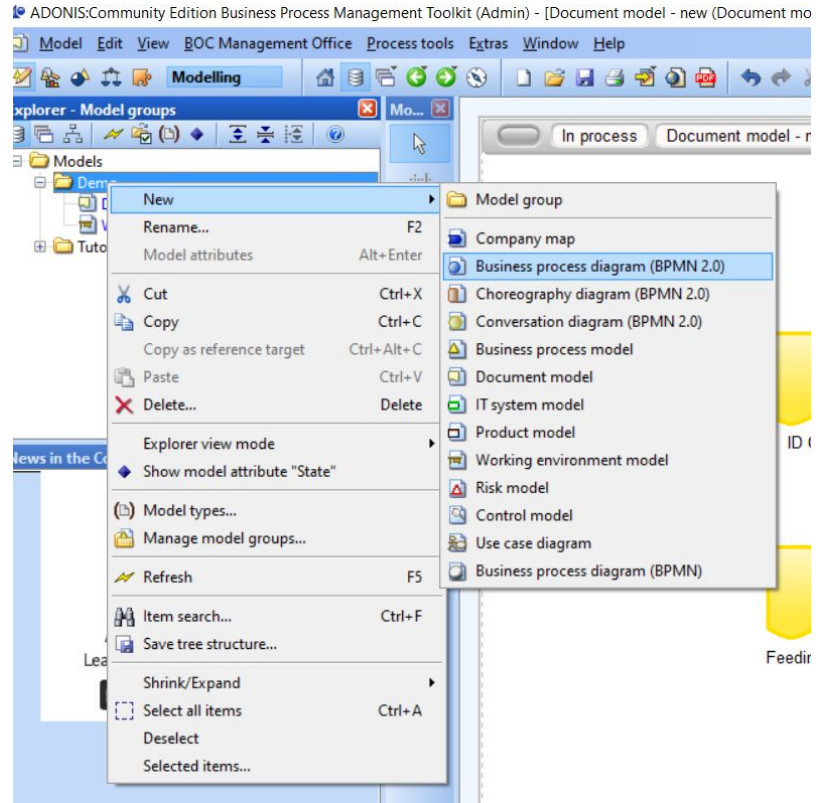


Add all documents

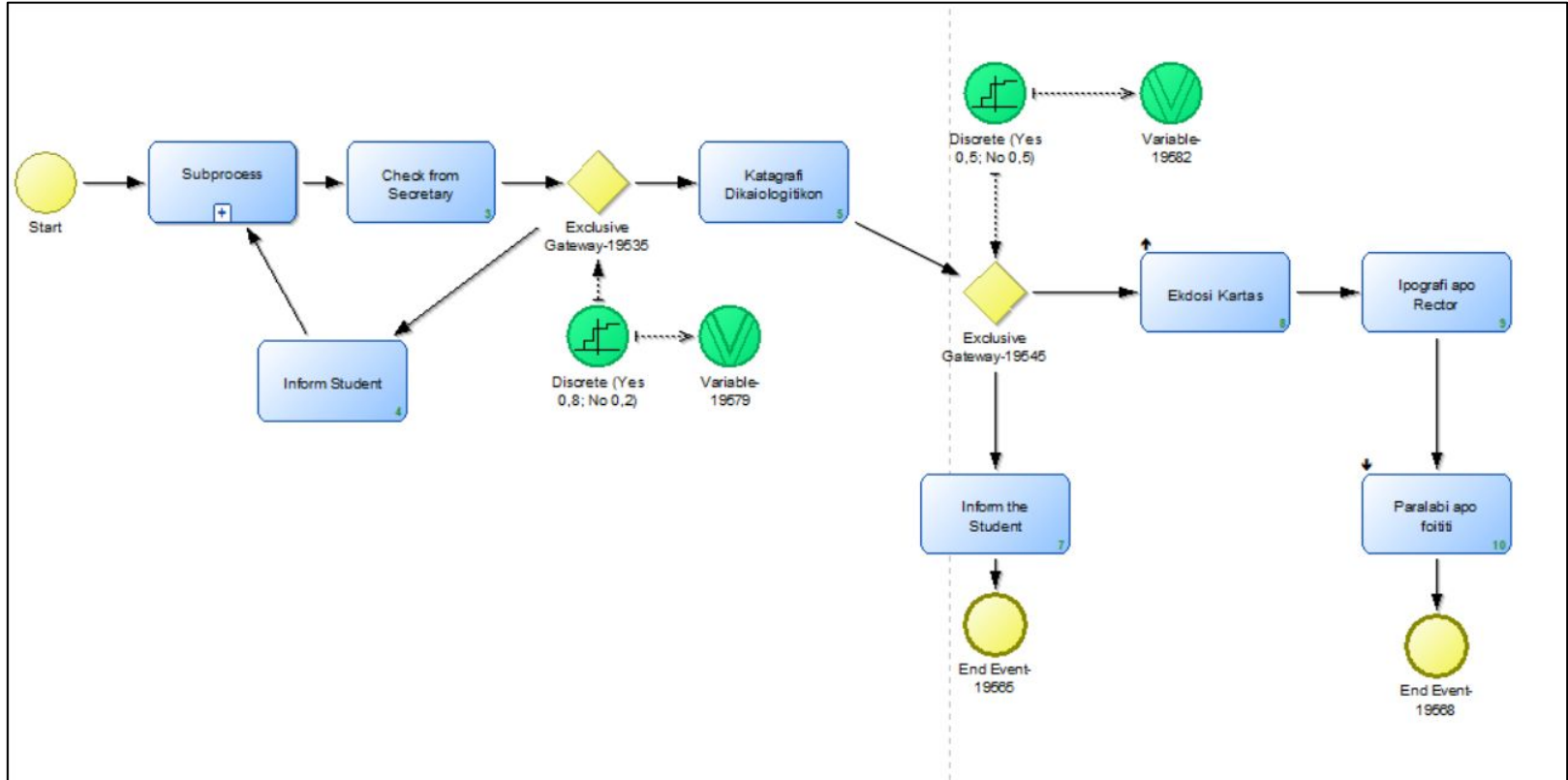


Create BPMN 2.0

- This is the core of Adonis



Modeling - BPMN 2.0



Setting for start node

Start (Start Event)

Name: Start

Show name

Order: 1

Description: * demo

Comment:

Process responsibility:

| | Role/Performer | Classification | Description |
|---|---|--------------------|-------------|
| 1 | Director (Performer) - Working environment me | mainly responsible | |
| 2 | Secretary (Performer) - Working environment m | mainly responsible | |
| 3 | Student (Performer) - Working environment m | mainly responsible | |

Close Reset 1/2

Start (Start Event)

Capacity analysis

Quantity: 100

Time period

Per year
 Per month
 Per day

Workload analysis

Process calendar...

Tolerance waiting time: 00:00:00:00:00

Abandon after tolerance waiting time

Process cost analysis

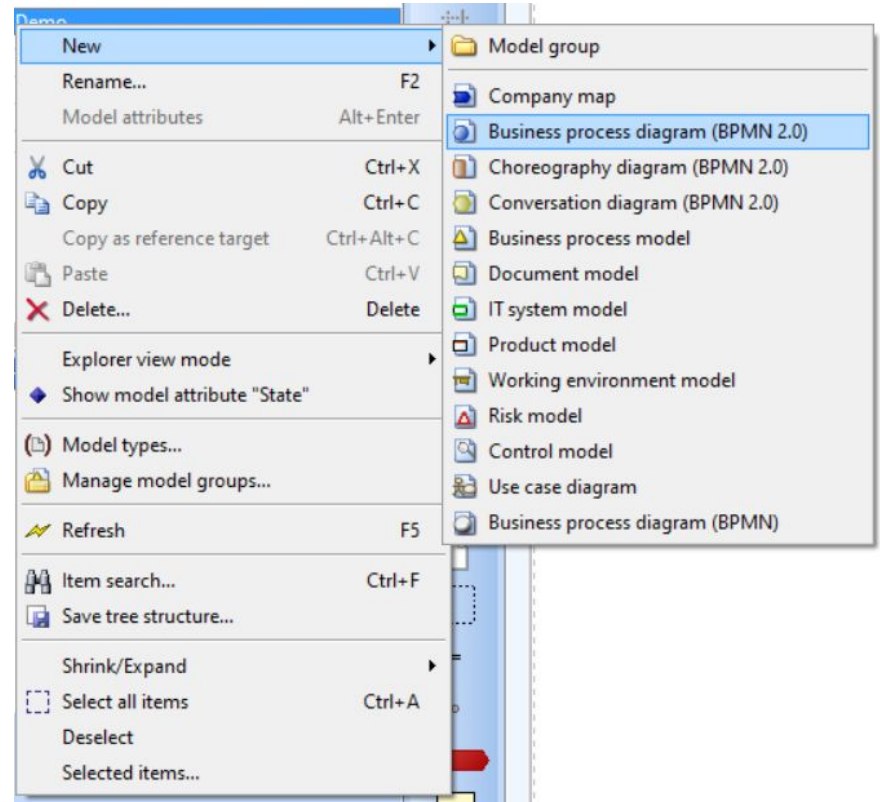
Cost driver:

Cost driver quantity: 0

Close Reset

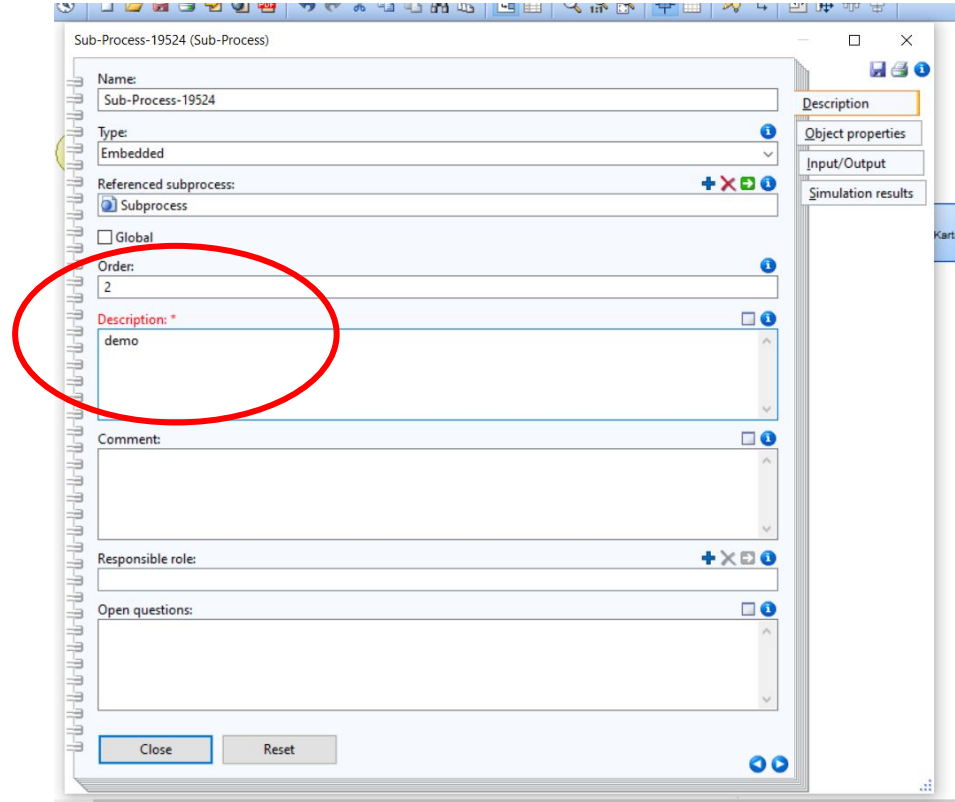
Create Subprocess

- Create an extra BPMN 2.0 model with name subprocess

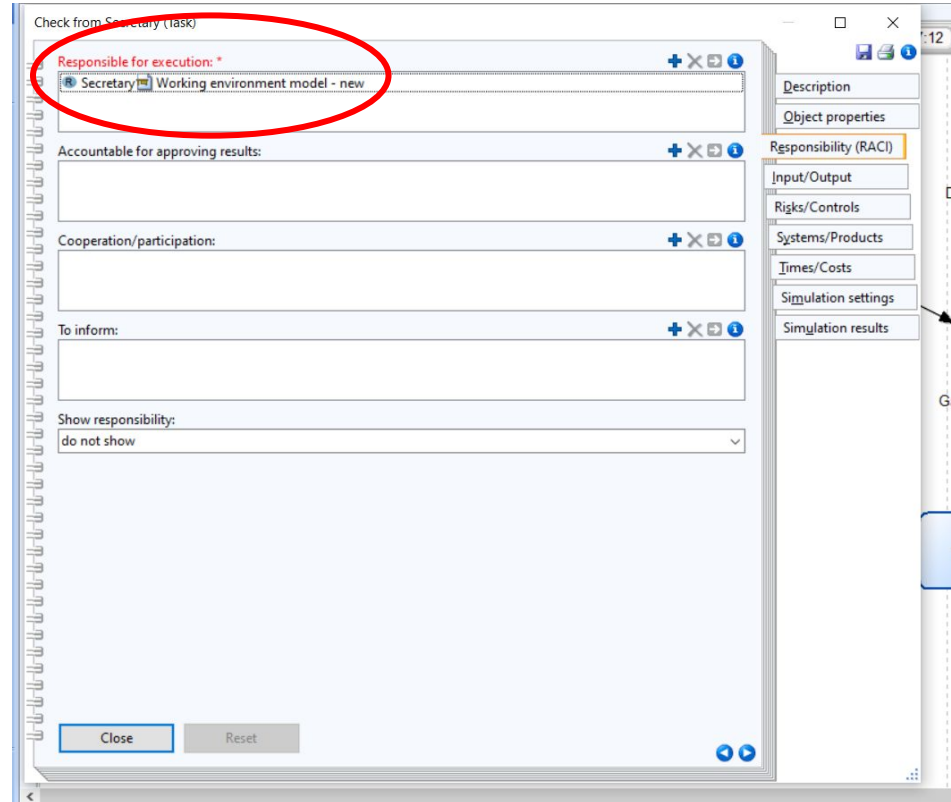
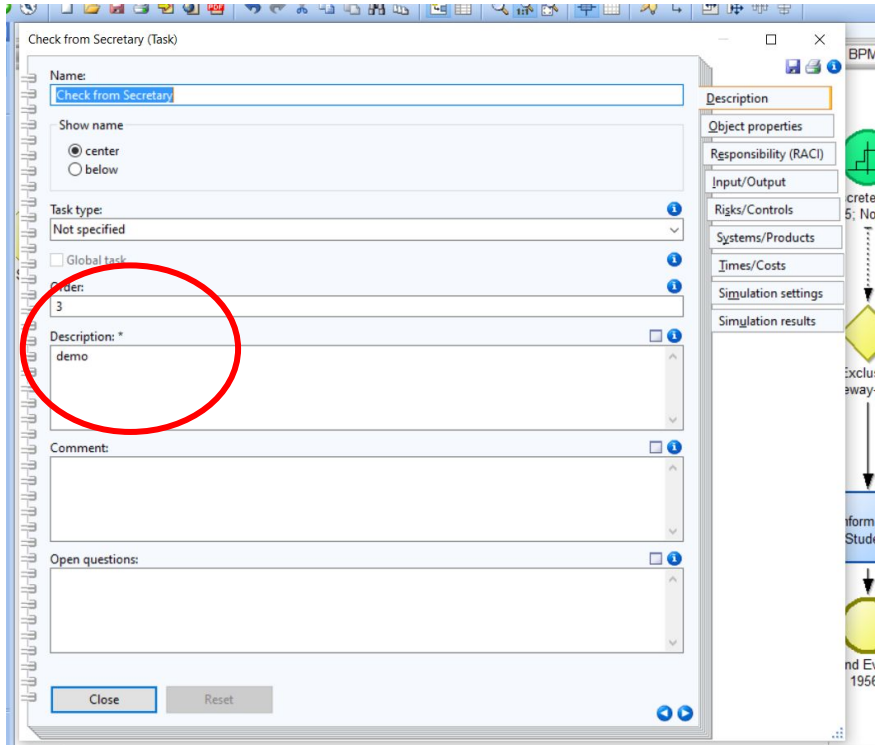


Setting for subprocess

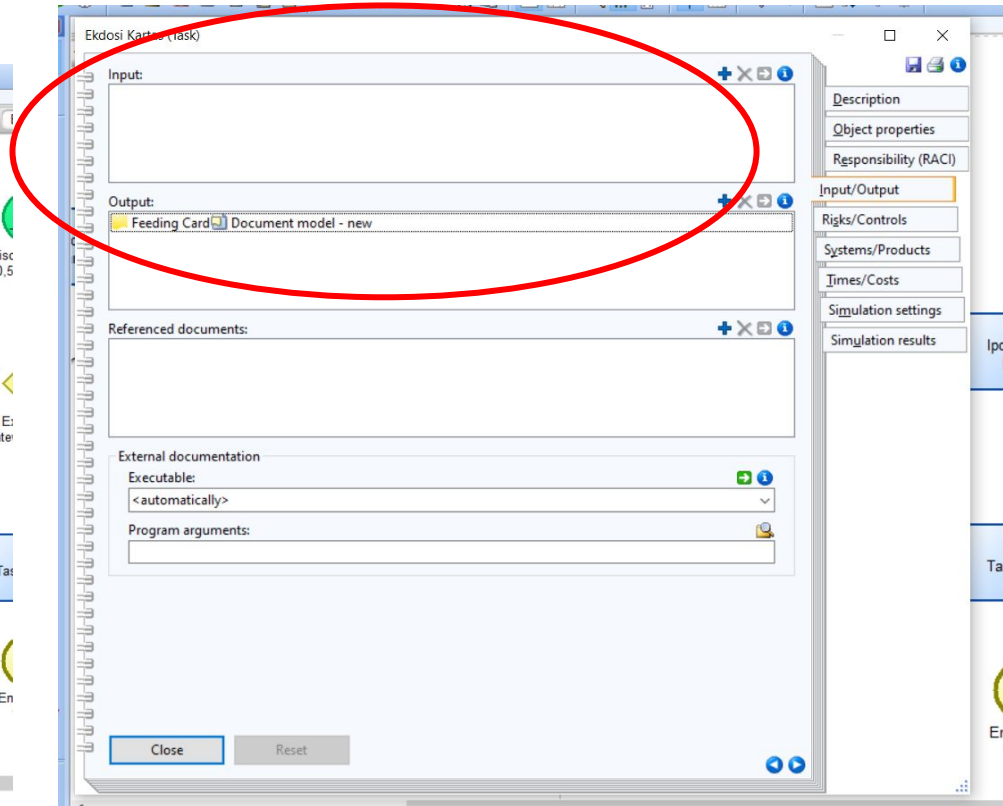
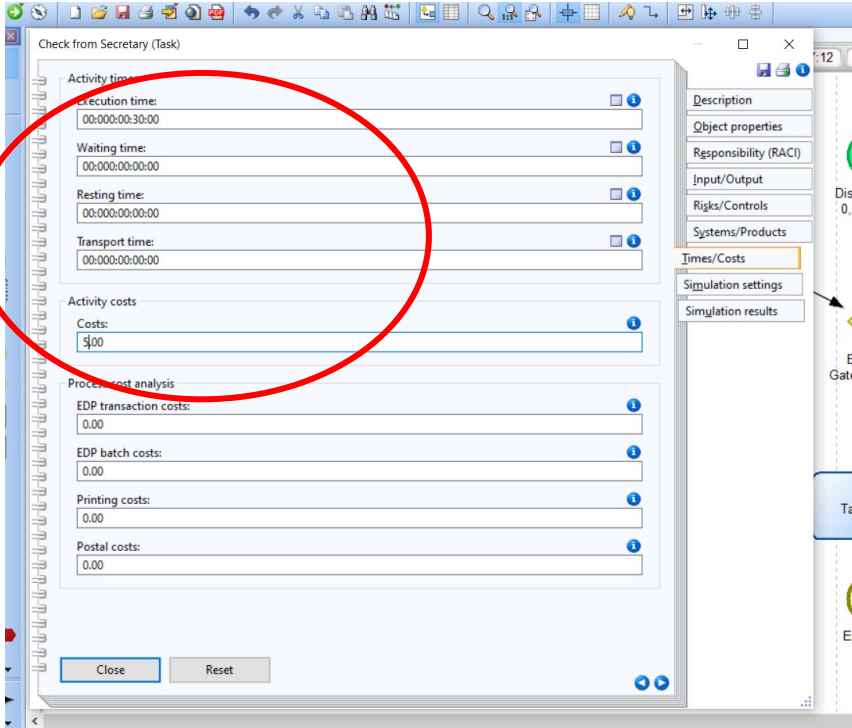
- Double-click “subprocess” of the first BPMN 2.0



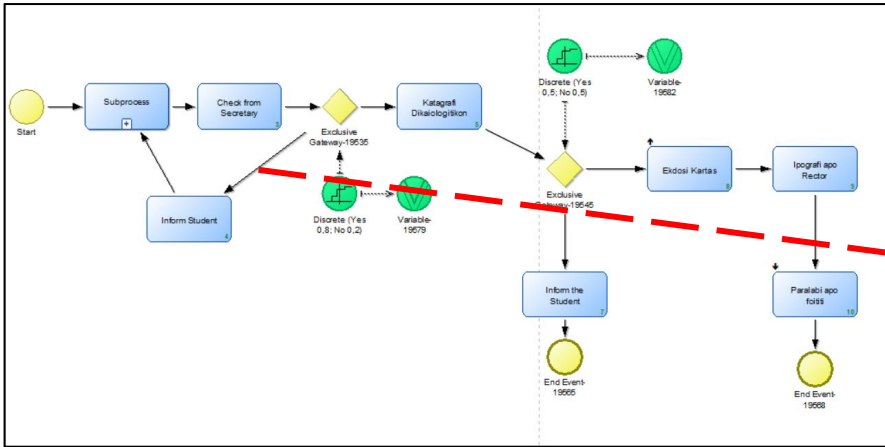
Settings for each task (1/2)



Settings for each task (2/2)

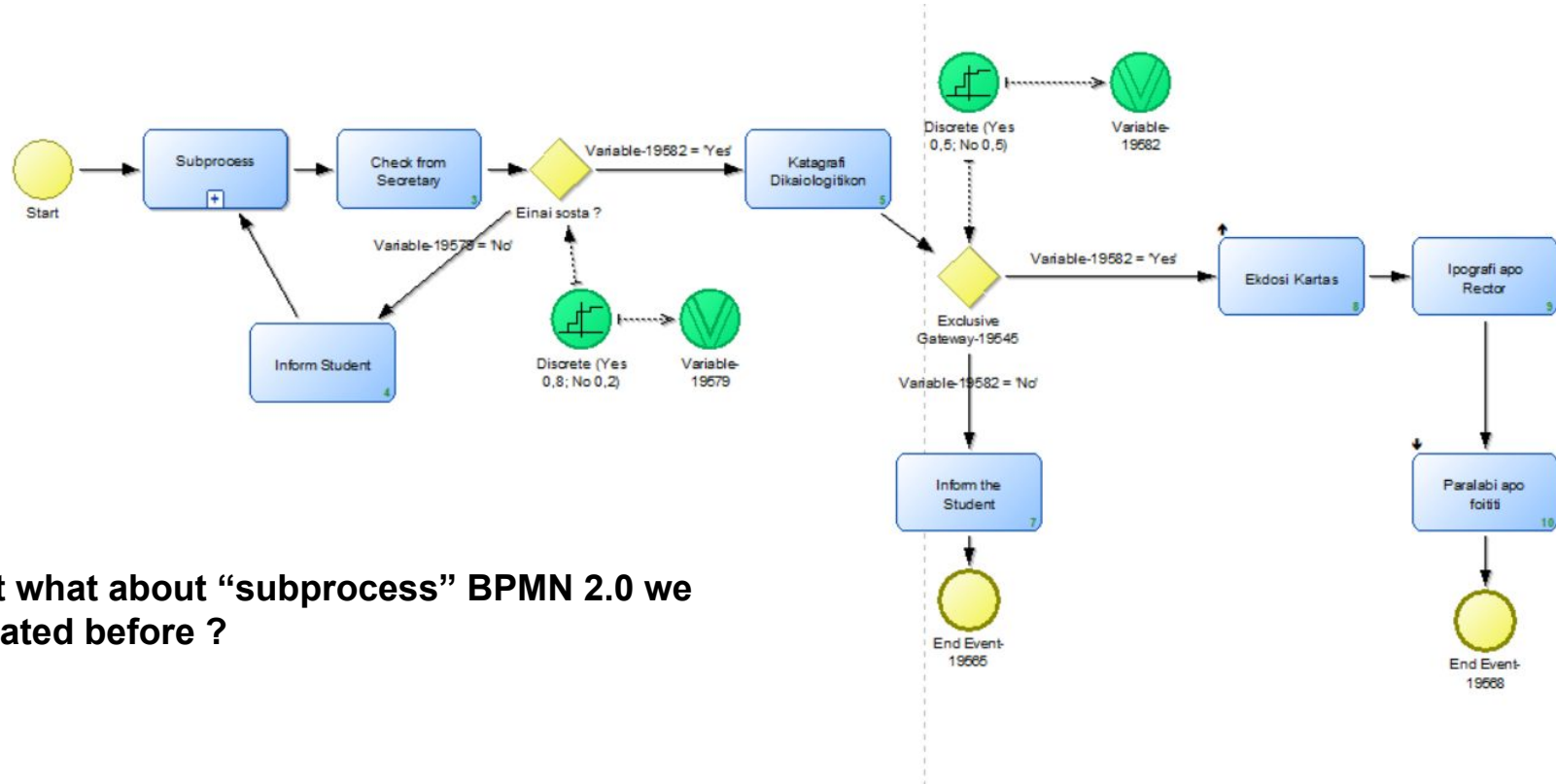


Setting for arrow from gateway



The screenshot shows the configuration for a transition condition in a simulation tool. The dialog box is titled 'Subsequent (Einai sosta ?, Inform Student) - Transition condition'. It features a 'Transition condition' field which is currently empty. Below this, there are logical operators: AND, OR, NOT, and Reset. The 'Expression' section is active, showing a dropdown menu with 'Variable-19579 <local>' selected. The operator is set to '=', and the value is set to 'No'. There are 'Add' and 'Info...' buttons next to the expression field. At the bottom, there are 'Apply', 'Cancel', and 'Help' buttons. The background shows a partial view of the simulation interface with a 'Details (Simulation)' tab selected.

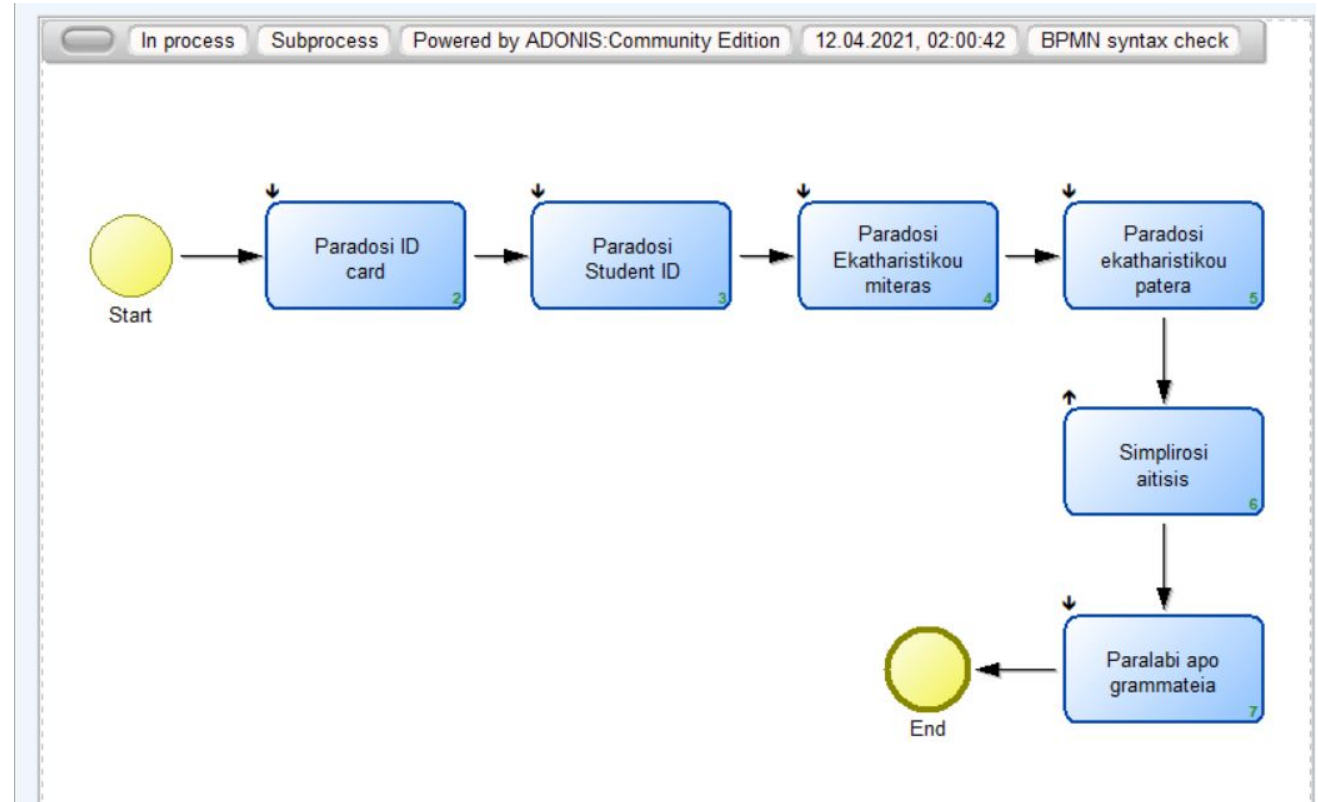
BPMN 2.0 Completed



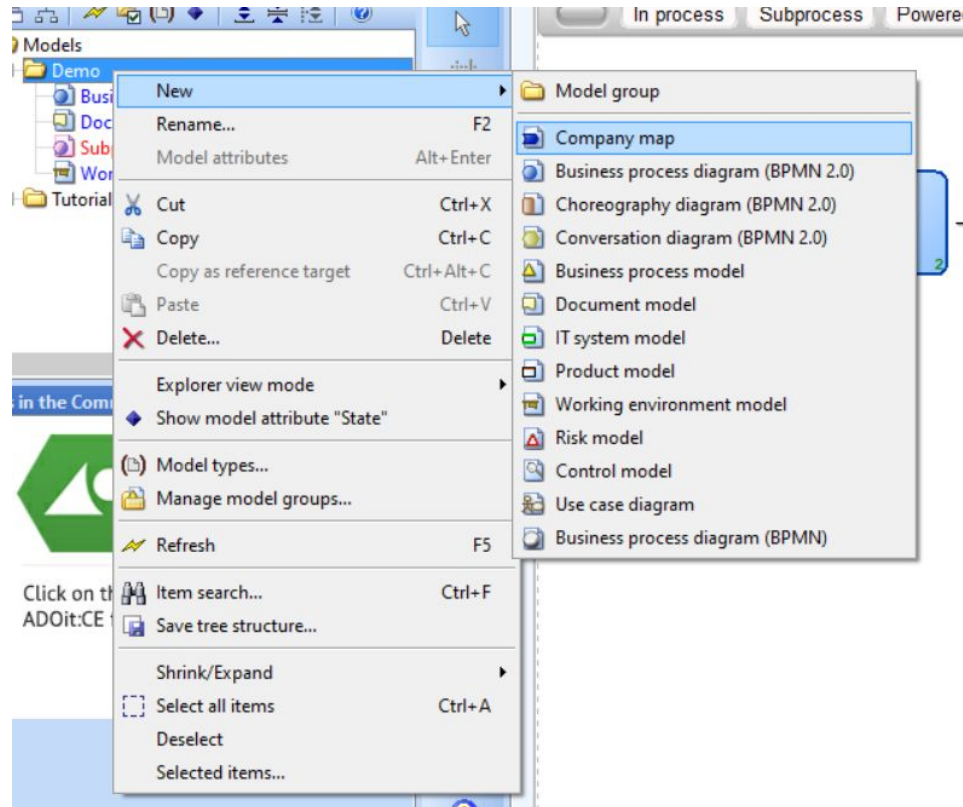
But what about “subprocess” BPMN 2.0 we created before ?

Subprocess BPMN 2.0

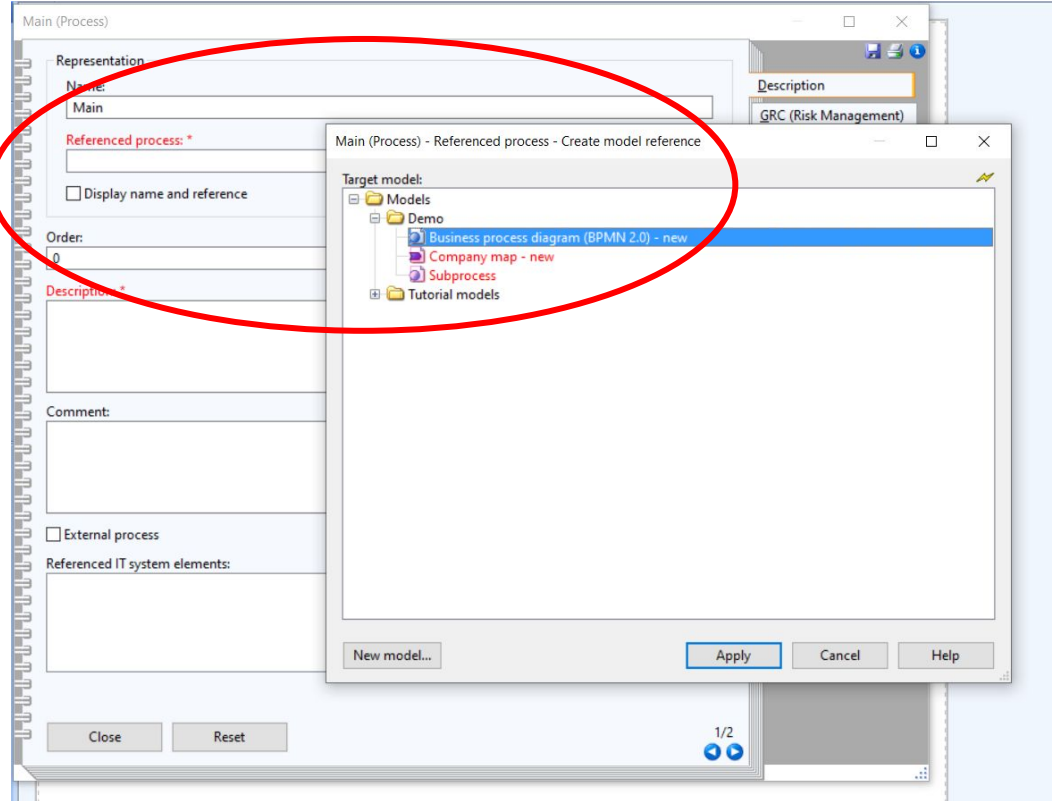
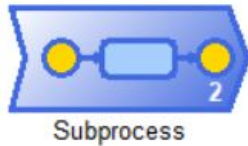
- Repeat the process that we followed before with the start node, end node and task settings
- For start node set **quantity = 1**



Create Company Map



Company Map Settings



The screenshot shows a software interface for configuring a process. The main window is titled 'Main (Process)' and has several fields: 'Name: Main', 'Referenced process: *' (with a red asterisk), 'Display name and reference' (checkbox), 'Order: 0', 'Description: *', 'Comment', 'External process' (checkbox), and 'Referenced IT system elements:'. A red oval highlights the 'Referenced process: *' field and the 'Main (Process) - Referenced process - Create model reference' dialog box. The dialog box shows a tree view of 'Target model:' with 'Models' expanded to 'Demo', where 'Business process diagram (BPMN 2.0) - new' is selected. Other items in the tree include 'Company map - new', 'Subprocess', and 'Tutorial models'. The dialog has buttons for 'New model...', 'Apply', 'Cancel', and 'Help'. At the bottom of the main window are 'Close' and 'Reset' buttons, and a '1/2' indicator.

Analysis

Consistency Check and Predefined Queries

ADONIS:Community Edition Business Process Management Toolkit (Admin) - [Business process diagram (BPMN 2.0) - new (Business process diagram (BPMN 2.0))]

Analysis Predefined queries Relation tables BOC Management Office Edit Extras Window Help

Analysis

Explorer - Model groups

- Models
 - Demo
 - Business process diagram (BPMN 2.0) - new
 - Company map - new
 - Document model - new
 - Subprocess
 - Working environment model - new
 - Tutorial models

Queries on Company maps

Queries on Business process models

Queries on Business process diagrams (BPMN 2.0)

Queries on Document models

Queries on IT system models

Queries on Use case diagrams

Queries on Working environment models

Consistency check on Business process diagrams (BPMN 2.0)...

Predefined queries on Business process diagrams (BPMN 2.0)...

Evaluation of the open questions in Business process diagrams (BPMN 2.0)...

Start

Subprocess

Check from Secretary

Variable-19579 = Yes

Eimai sosta ?

Katagrafi Dikaiologitikon

Discrete (Yes 0,5; No 0,5)

Variable-19682

```
graph LR; Start((Start)) --> Subprocess[Subprocess]; Subprocess --> Check[Check from Secretary]; Check --> Decision{Eimai sosta?}; Decision -- "Variable-19579 = Yes" --> Task[Katagrafi Dikaiologitikon]; Task --> Discrete[Discrete (Yes 0,5; No 0,5)]; Discrete --> Variable[Variable-19682];
```

Simulation

Path Analysis

- Path Analysis determines the possible paths of a BPMN 2.0
- Determines execution time, cost and the possibility to follow a specific path

The screenshot displays the ADONIS:Community Edition Business Process Management Toolkit interface. The main window title is "ADONIS:Community Edition Business Process Management Toolkit (Admin) - [Subprocess (Business process diagram (BPMN 2.0))]". The menu bar includes "Algorithms", "Edit", "Extras", "BOC Management Office", "Window", and "Help". The toolbar contains various icons, with a red circle highlighting the "Simulation" icon. The left sidebar shows a tree view of "Model groups" with "Models" expanded, listing "Demo", "Business process diagram (BPMN 2.0) - new", "Company map - new", "Document model - new", "Subprocess", "Working environment model - new", and "Tutorial models". A red circle highlights the "Business process diagram (BPMN 2.0) - new" model. The main workspace shows a "Simulation - Path analysis" dialog box. The dialog has a "Models:" section with a tree view where "Business process diagram (BPMN 2.0) - new" is selected and circled in red. The "Numbers" section includes "Number of simulations:" (1,000), "Working days per year:" (170.0), and "Hours per working day:" (8.0). The "Settings" section includes "Input parameters:" (Standard) and "Agents...". The "Passive components" section includes checkboxes for "Program calls", "Deterministic simulation", and "Log file", along with a "Start value:" (1) and "File name:" field. The dialog has "OK", "Cancel", and "Help" buttons at the bottom.

Results of Path Analysis

- For your report choose **the first** and **the last path**

The image shows two overlapping windows from a path analysis software. The left window, titled "Path analysis - Business process model: Business process diagram (BPM...", is in the foreground. It has a "Path specific" section with a dropdown menu set to "Probability" and a spinner box showing "1 of 11 path(s)". Below this is a "Path results..." button. To the right are buttons for "Save paths...", "Evaluation...", "Cancel", and "Help". The "Results" section at the bottom has "Results..." and "Agents..." buttons.

The right window, titled "Path analysis - Results Path 1", displays the results for the selected path. It includes the following information:

- Process: Business process diagram (BPMN 2.0) - new
- Path 1
- Number of simulations: 1000
- Sort criterion: Probability
- Probability: 39.5000%
- Execution time: 00:000:01:35:00
- Waiting time: 00:000:00:00:00
- Resting time: 00:000:00:00:00
- Transport time: 00:000:00:00:00
- Cycle time: 00:000:01:35:00
- Costs: 6.000000

The results are then broken down into two sub-processes:

Business process diagram (BPMN 2.0) - new (Business process diagram (BPMN 2.0))

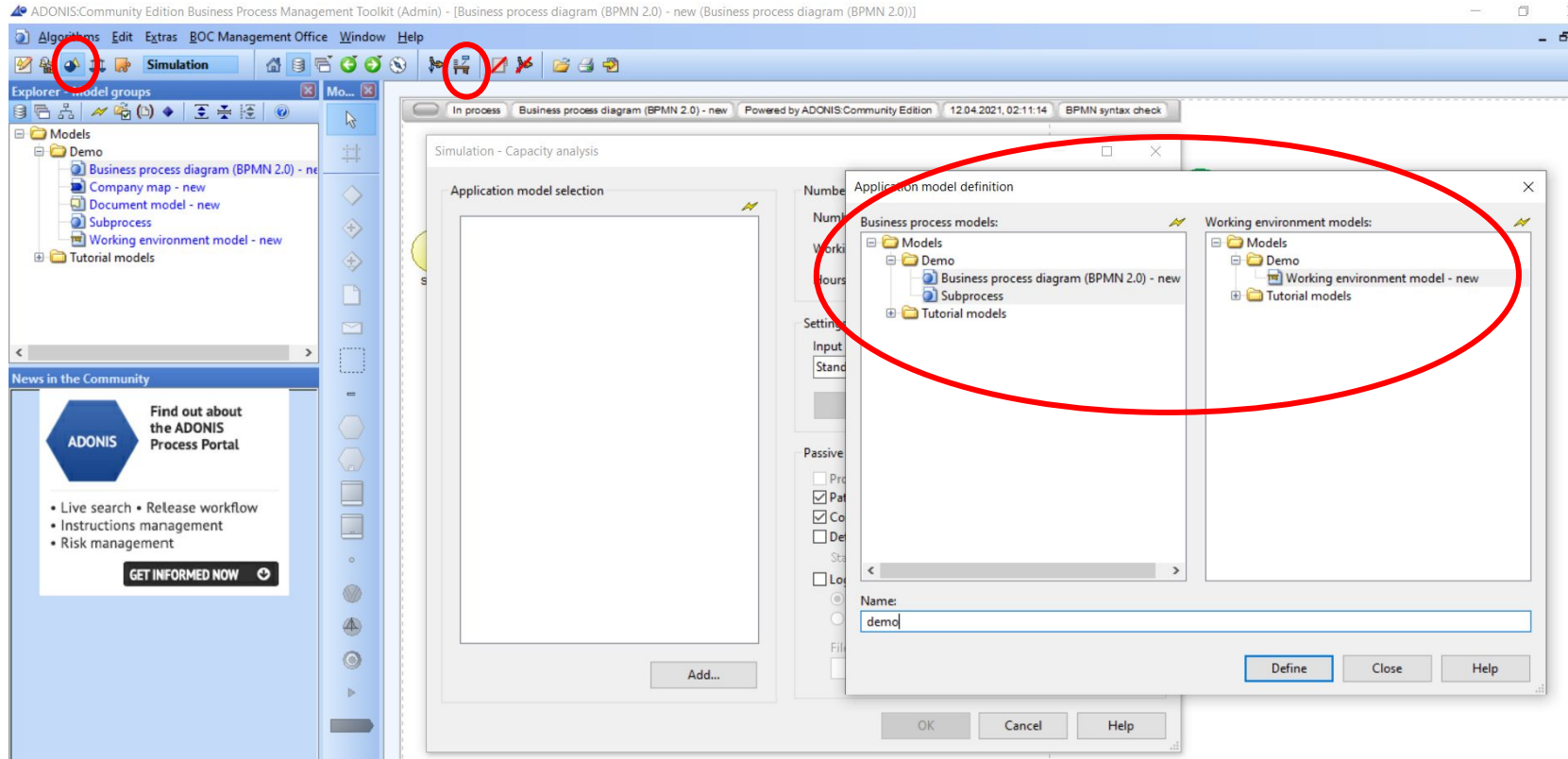
- Start Event: Start
- Sub-Process: Sub-Process-19524
- Task: Check from Secretary
- Exclusive Gateway: Einai sosta ? --> Variable-19579 = 'Yes'
- Task: Katagrafi Dikaiologitikon
- Exclusive Gateway: Exclusive Gateway-19545 --> Variable-19582 = 'No'
- Task: Inform the Student
- End Event: End Event-19565

Business process diagram (BPMN 2.0) - new (Business process diagram (BPMN 2.0)) --> Subprocess (Business process diagram (BPMN 2.0))

- Start Event: Start
- Task: Paradosi ID card
- Task: Paradosi Student ID
- Task: Paradosi Ekatharistikou miteras
- Task: Paradosi ekatharistikou patera
- Task: Simplirosi aitisis
- Task: Paralabi ano grammatas

On the right side of the results window are buttons for "Save...", "Print", "Close", and "Help".

Capacity Analysis (1/2)



Capacity Analysis (2/2)

- We are interested mainly in capacity planning
- You should also choose the others
- Capacity analysis determines how many resources (performers and machines) are necessary for the execution of certain business process models based on how often these models are executed in a given period of time

Capacity analysis - Application model: demo

Simulation results

Process related

Person related

Working environment

Capacity planning

Working environment

Class:

Relation:

Related to

Per year

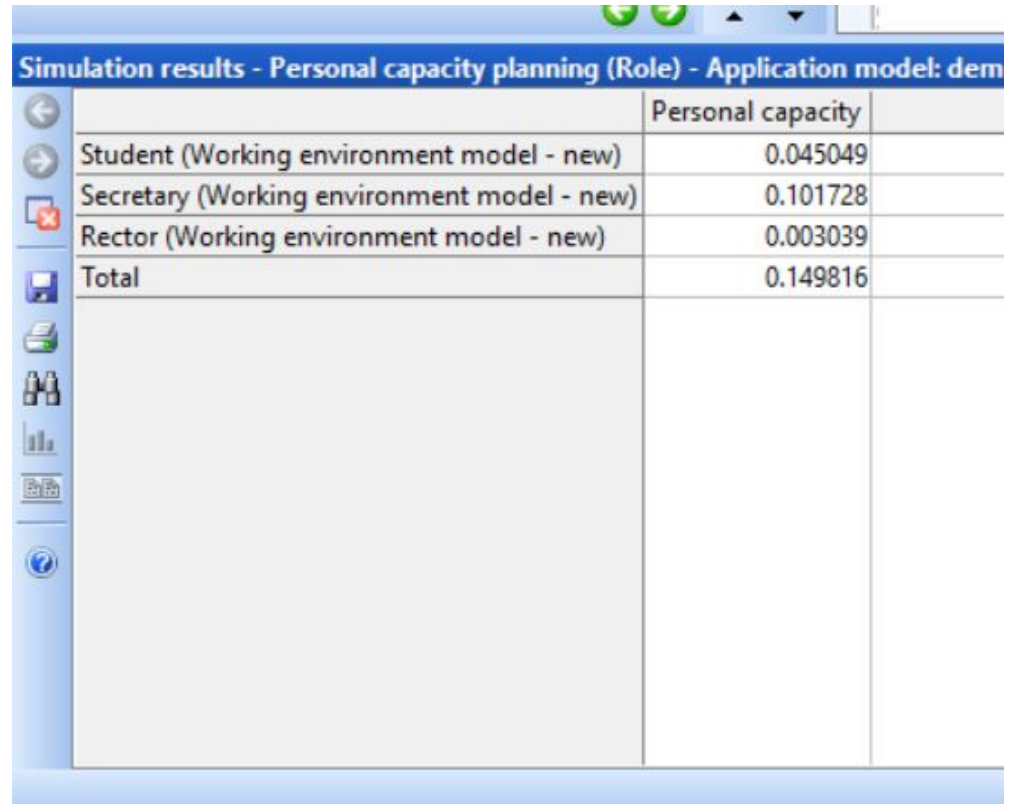
Per month

Per process

Show Model info Evaluation... Agents... Close Help

Results of capacity Analysis

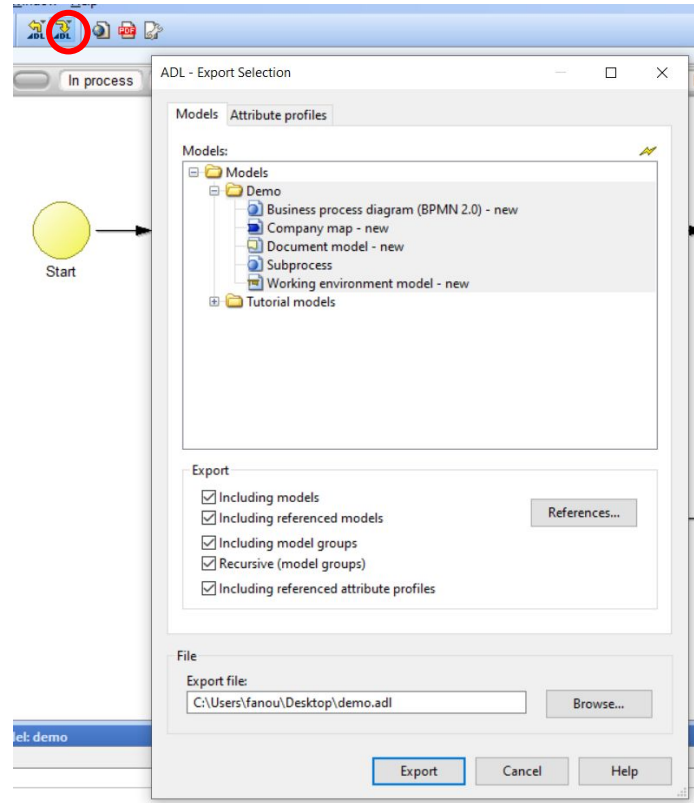
- The values should be **near to 1**
 - If < 1 the performer is **malfunctioning**
 - If > 1 the performer is **overworking**
 - In these cases **optimization** is required



Simulation results - Personal capacity planning (Role) - Application model: dem

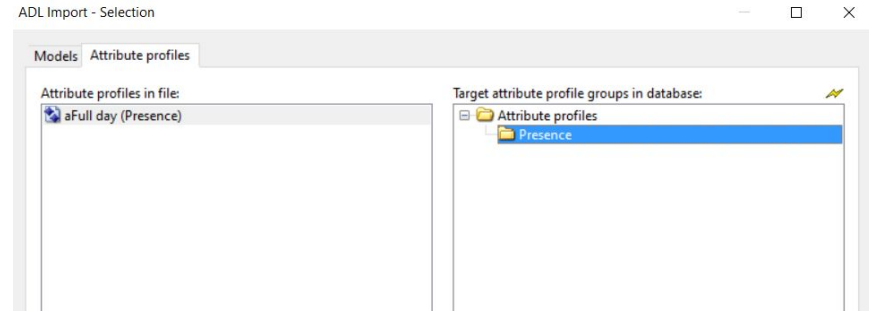
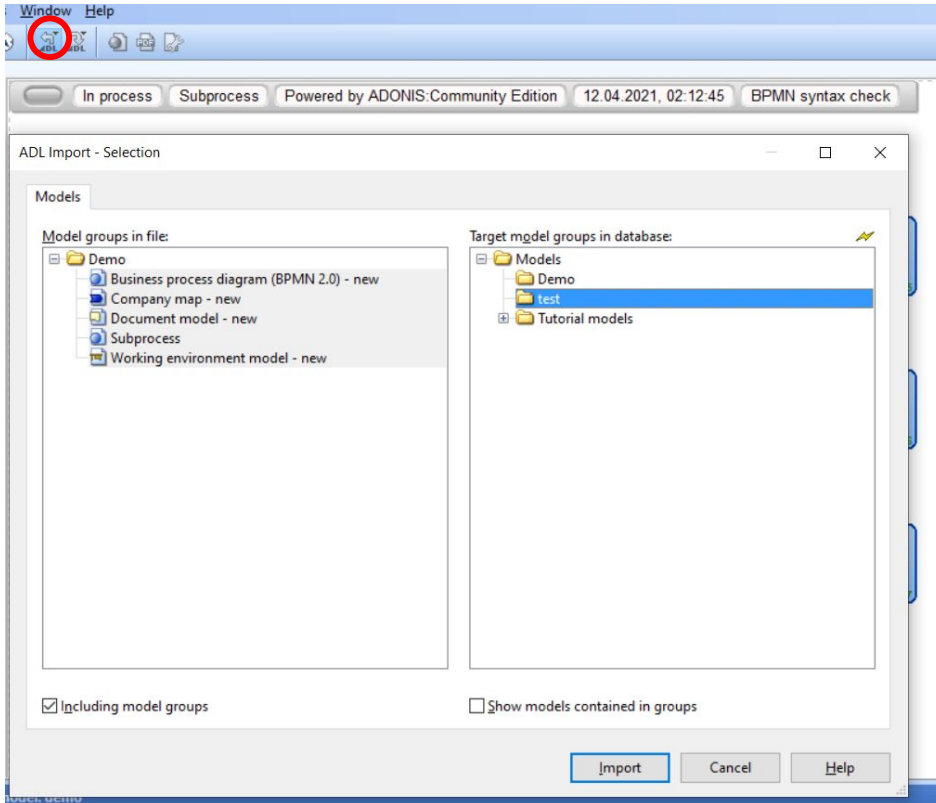
| | Personal capacity |
|---|-------------------|
| Student (Working environment model - new) | 0.045049 |
| Secretary (Working environment model - new) | 0.101728 |
| Rector (Working environment model - new) | 0.003039 |
| Total | 0.149816 |

Export



Import

Before submit -> export and import



THANK YOU