#### Rutger van Dijk

Our BPMN guidelines

How to model your BPMN diagrams so everybody understands them, and they are easy to maintain.

There are infinite ways to model your BPMN diagrams, these are the guidelines we use within MyCubes and they are based upon our own best practices.

Feel free to contact me in case you don't agree or have additional guidelines.



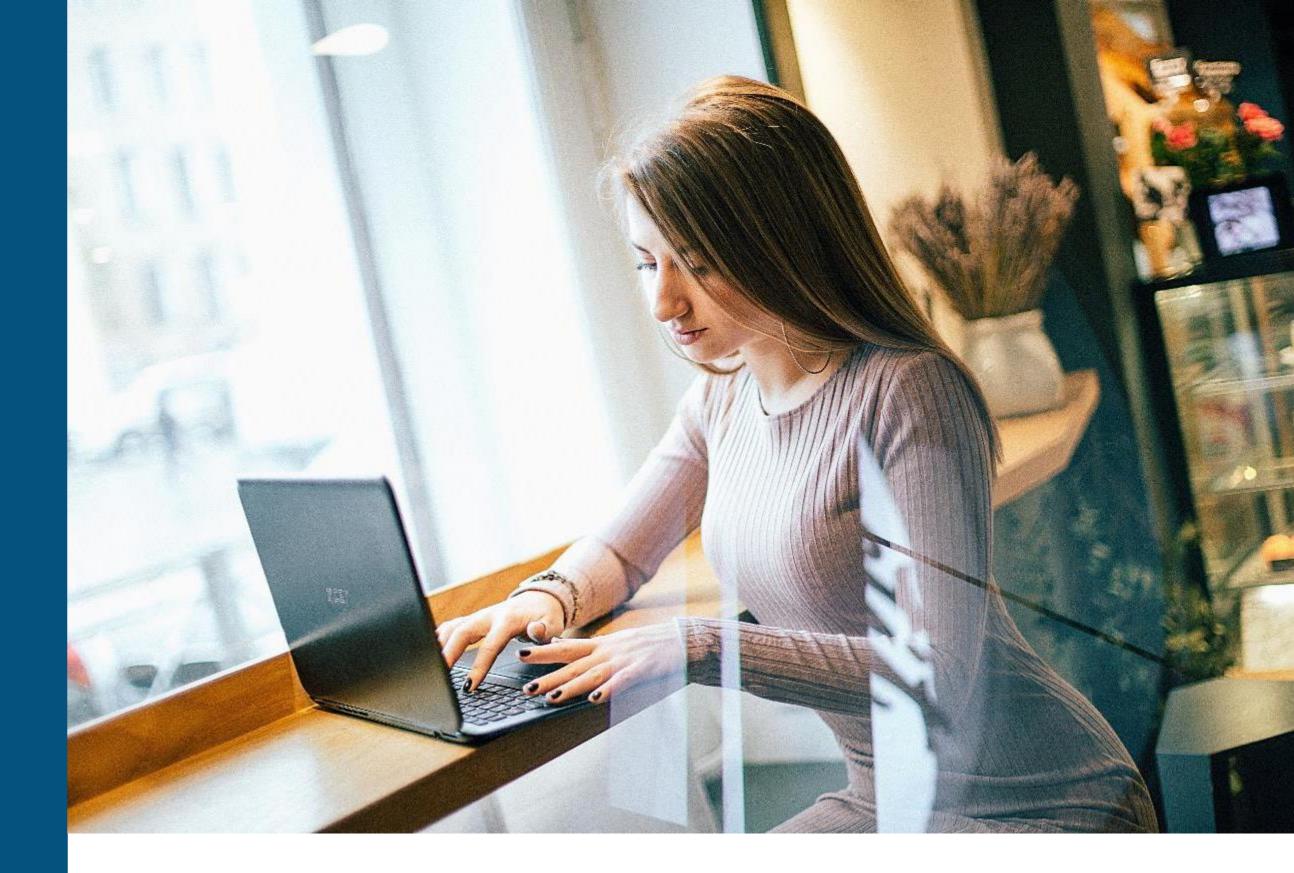




#### Guidelines

# Model your processes smarter to avoid problems and improve collaboration

Agree to guidelines before you start modelling will save you a lot of headaches in the future



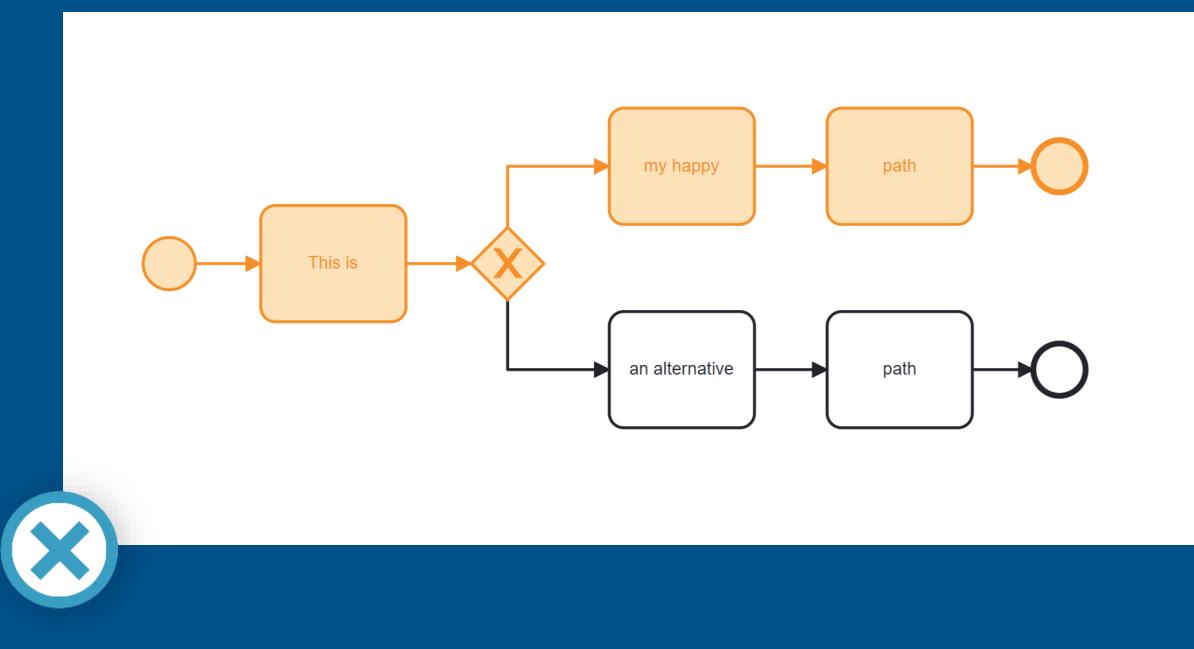
- Diagrams are clear to understand by all business and technical users.
- The solution can be supported in production.
- Any dashboard/report will show correct and understandable data.

# Guideline categories

Flow guidelines help you model complex business processes and keeping it visually clear.

Modeling Miscellaneous Notation Modeling guidelines help Some modelling patterns Notation guidelines help you to clarify by labels to make diagrams we try to use as much as what happens at every consistent and avoid any possible and some we try step of the process. problems in your to avoid. application.

### 1.1 Horizontal happy path

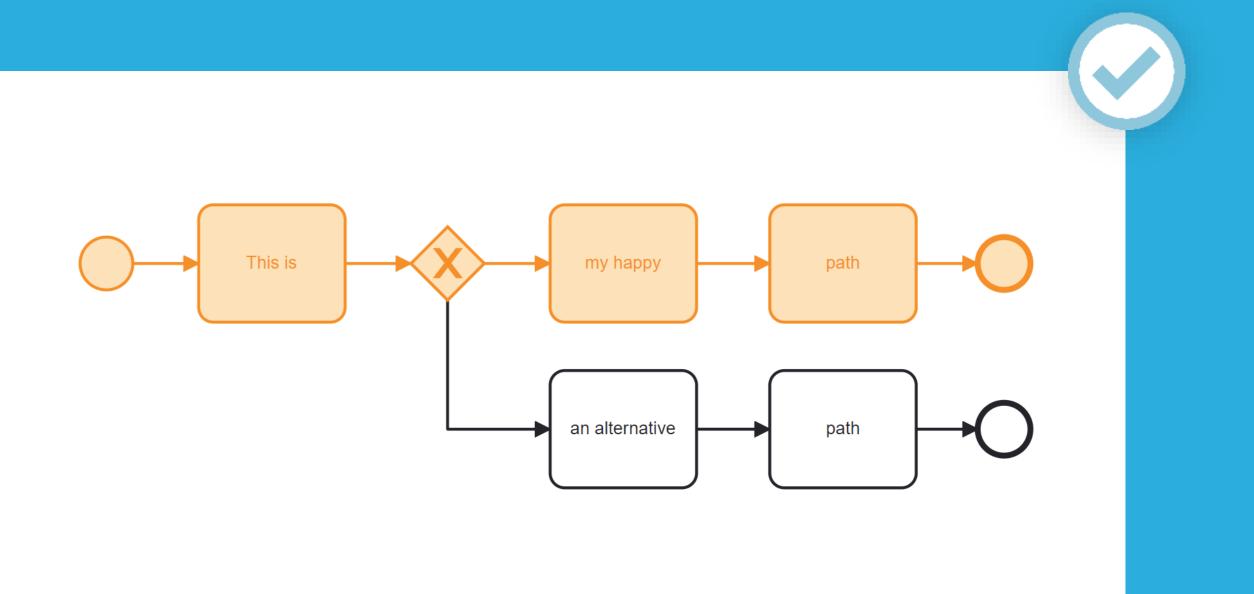


#### Note 2:

Model your happy path as one horizontal line. Any deviations from it will be super clear.

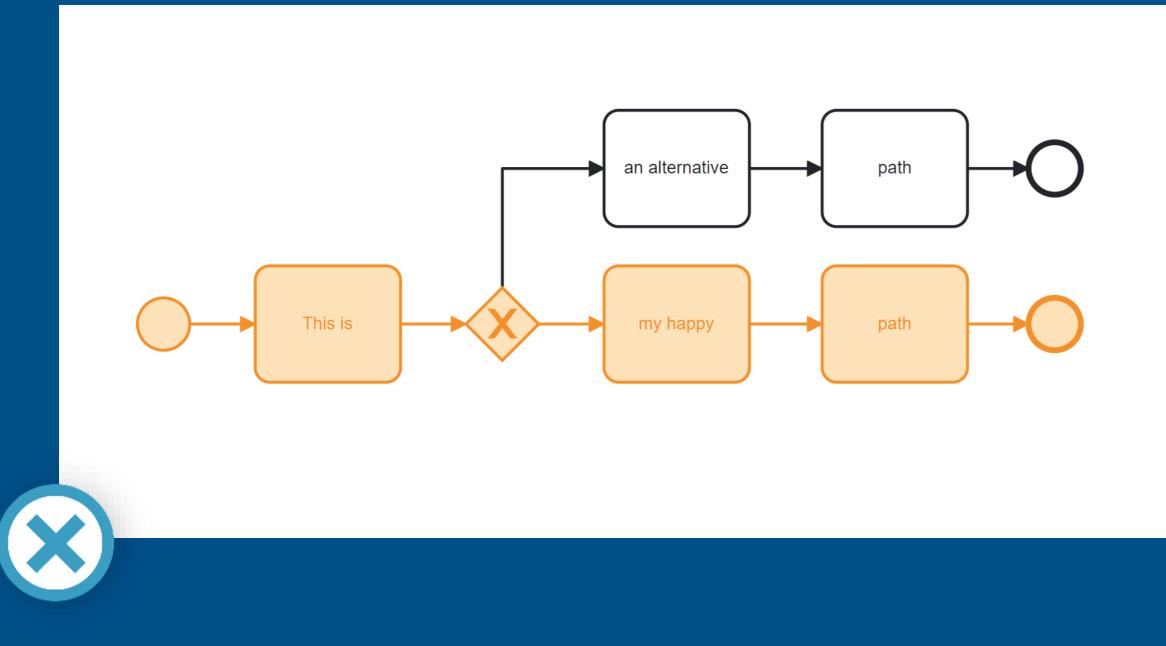
#### Note 1:

Always start with the main goal of the (sub)process and define the happy path.





### 1.2 Model downwards

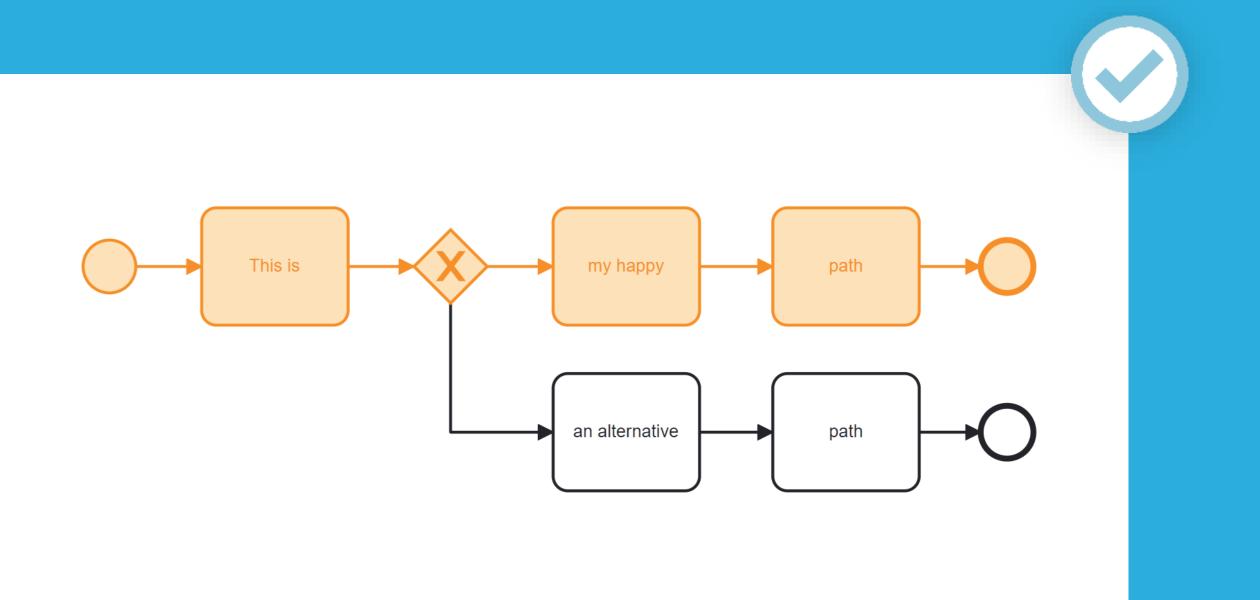


#### Note 2:

Don't be too hard on yourself. If you have a good reason to go up, just do it.

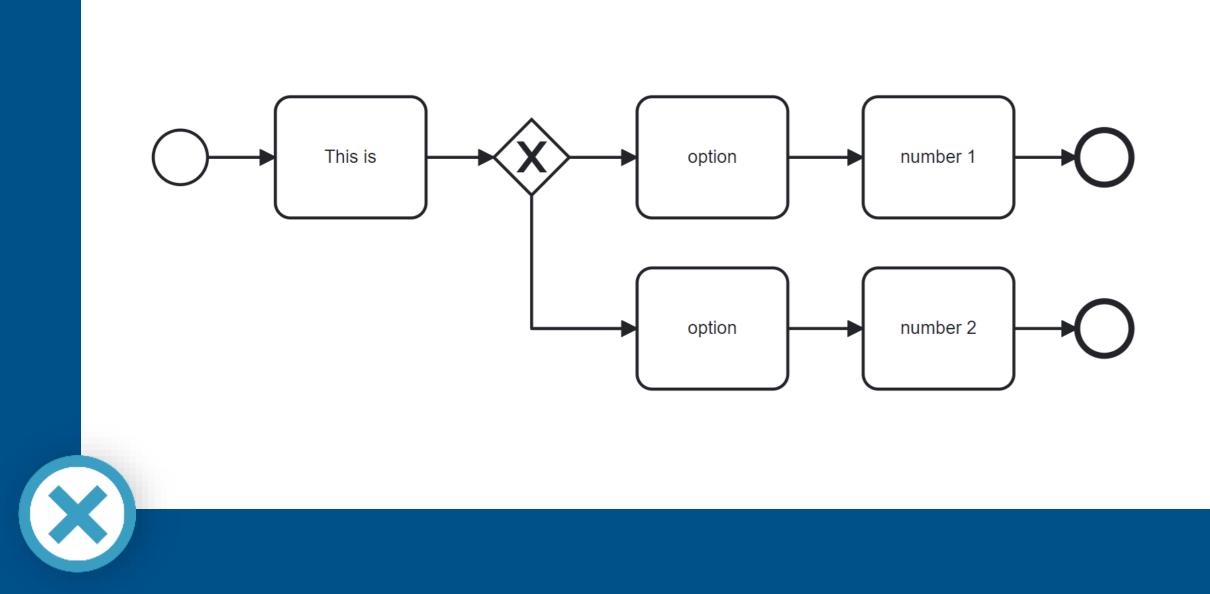
#### Note 1:

When you have an alternative path, you should always try to model downwards.





### 1.3 Equal options

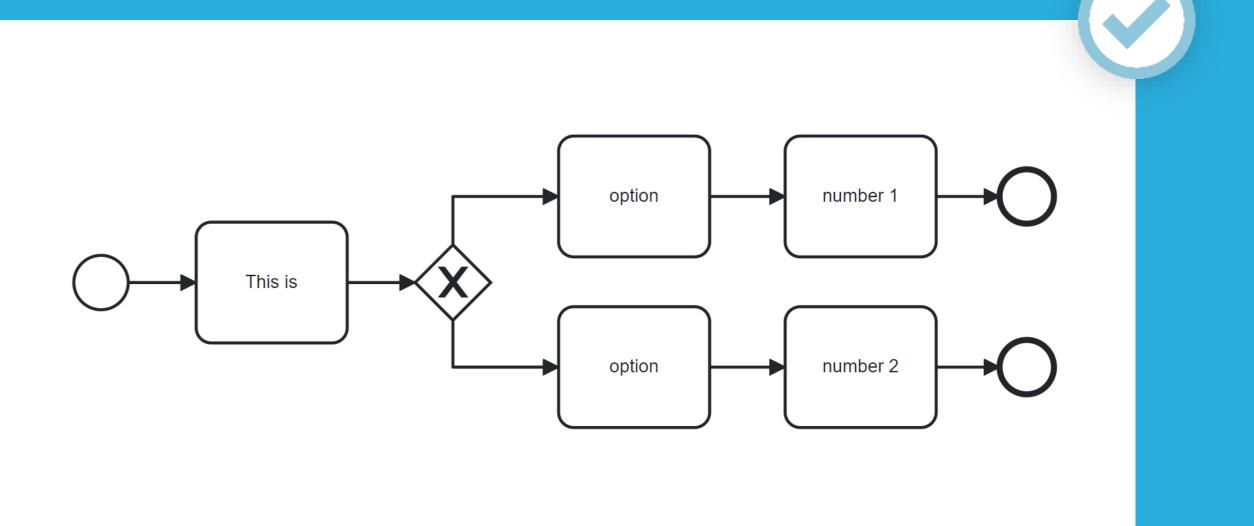


#### Note 2:

Model them so there is no happy flow, but two or more equal alternatives.

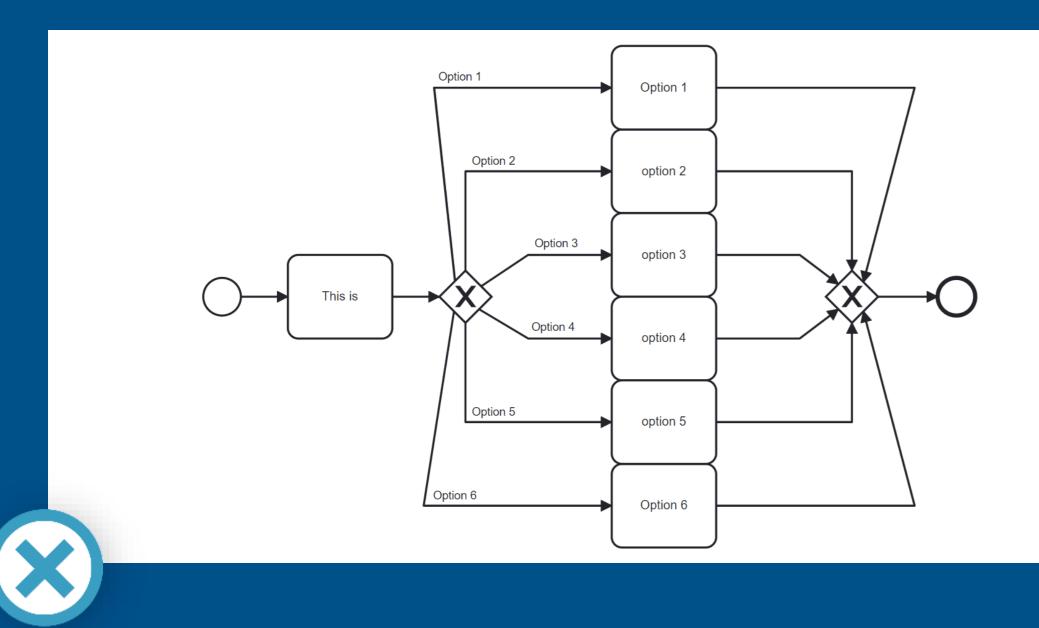
#### Note 1:

If there is not one happy flow but multiple equal options.





### 1.4 Multiple options

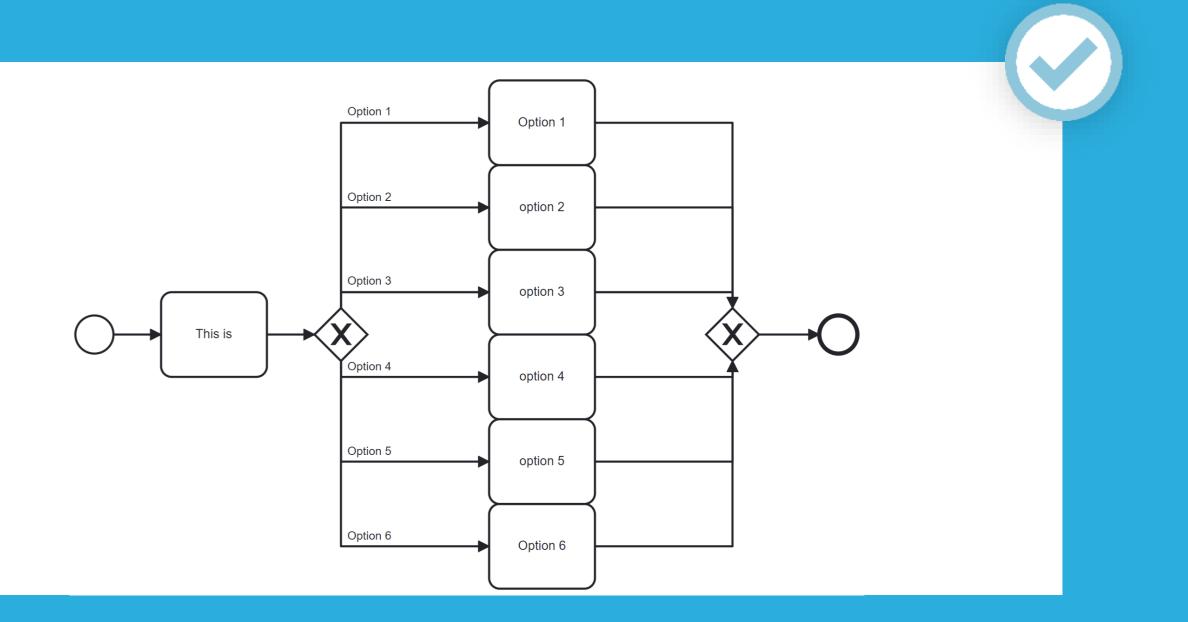


#### Note 2:

You should always try to avoid overlapping elements. This is the only case where I suggest to do it.

#### Note 1:

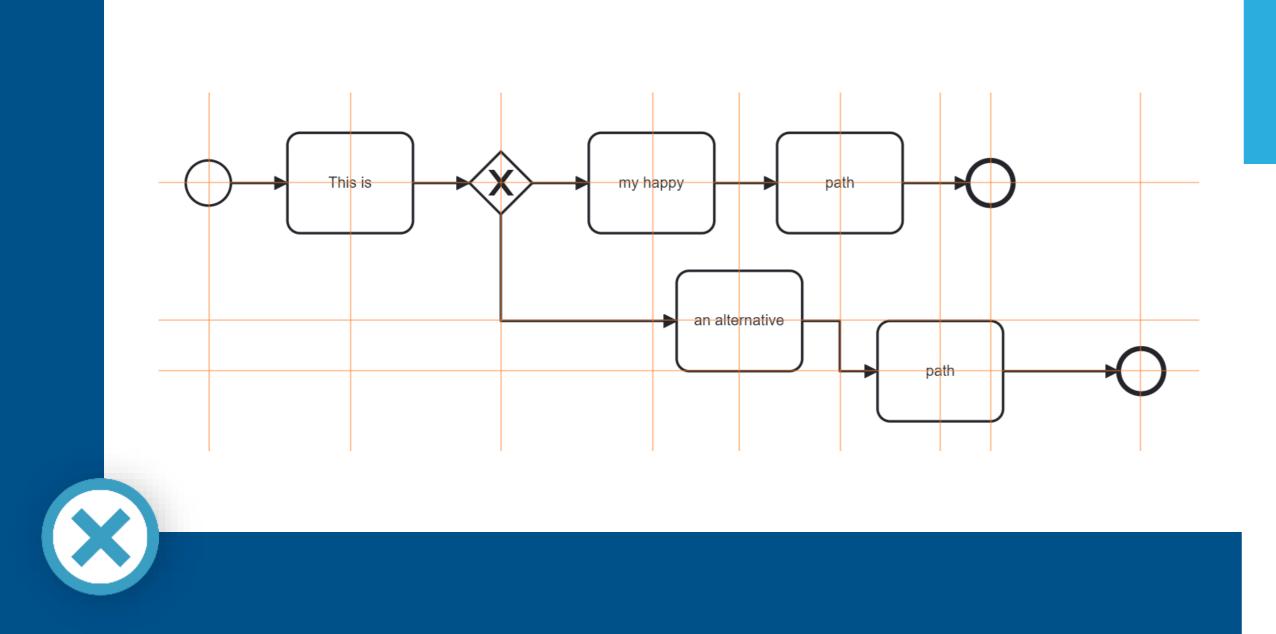
If there are a lot of options, merge arrows in the same direction for clarity.







### 1.5 Align elements

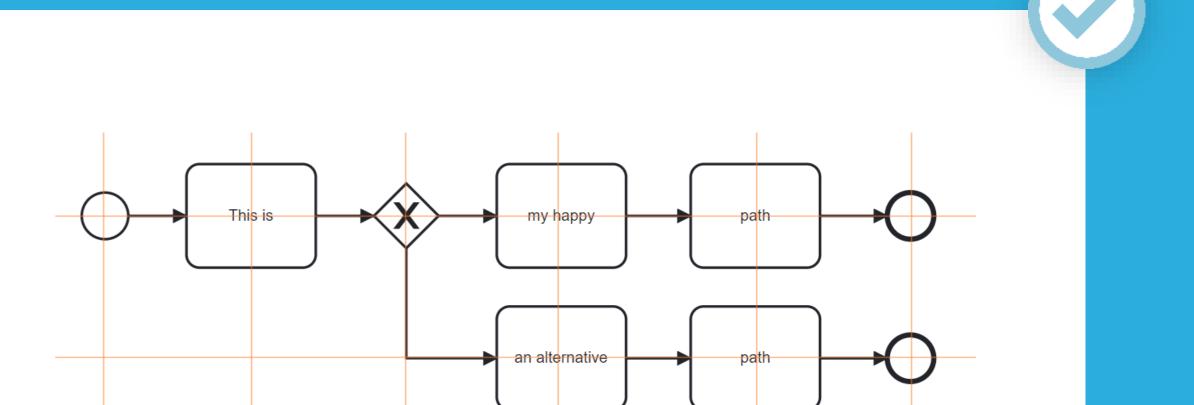


#### Note 2:

Different element types should also be aligned even though their sizes differ.

#### Note 1:

Align elements horizontally and vertically. Try to use as little different grid lines as possible.





## Guideline categories

Flow

Flow guidelines help you model complex business processes and keeping it visually clear.

Notation

Notation guidelines help you to clarify by labels what happens at every step of the process.

Modeling

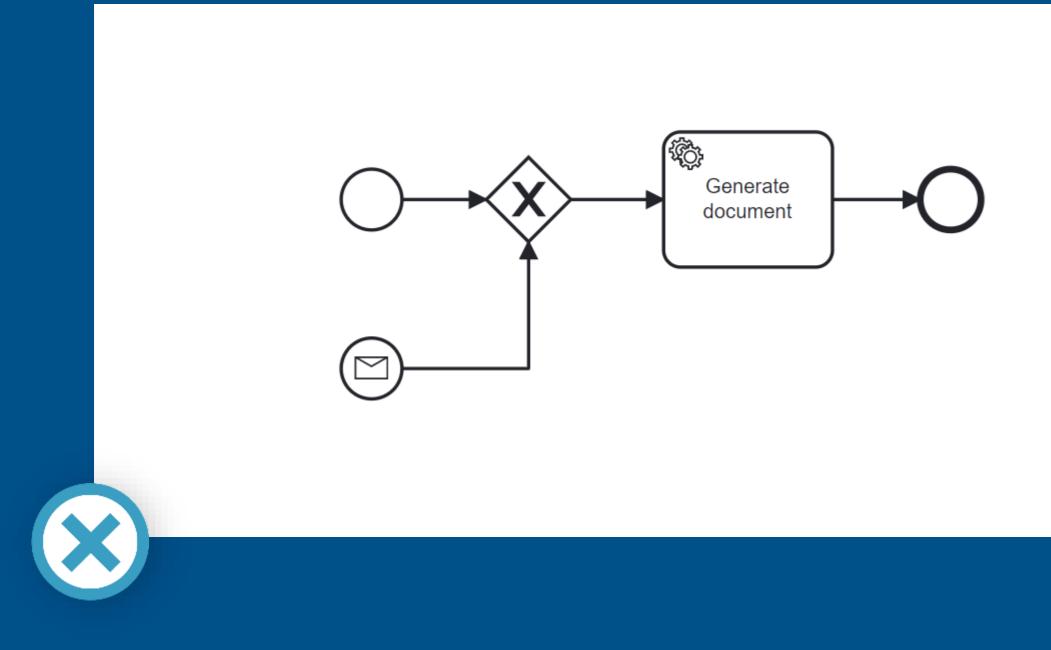
Modeling guidelines help
to make diagrams
consistent and avoid any
problems in your

application.

Miscellaneous

Some modelling patterns we try to use as much as possible and some we try to avoid.

### 2.1 Label all start events

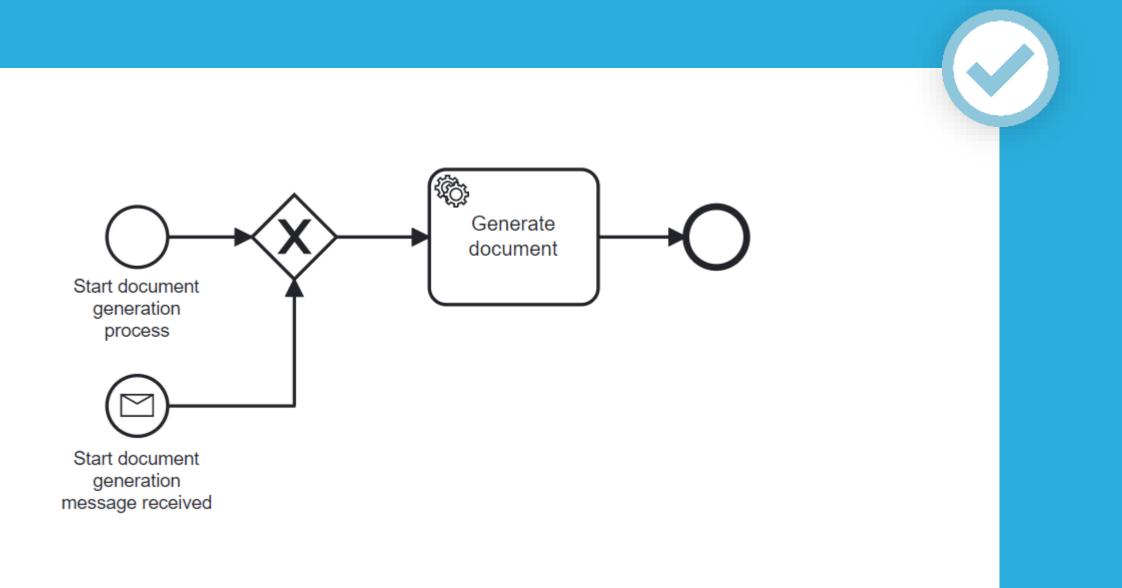


#### Note 2:

When the (sub)process is triggered via some special event, make sure the trigger is part of the label.

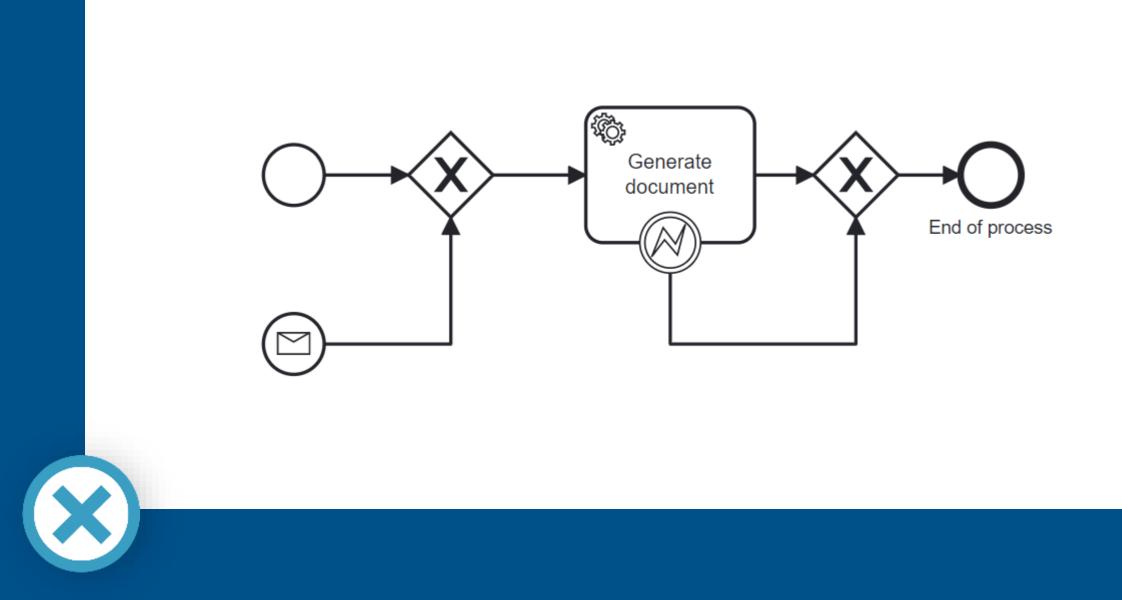
#### Note 1:

The label of any Start event element should clearly indicate what is the expectation of the outcome of this (sub)process.





### 2.2 Label all end events

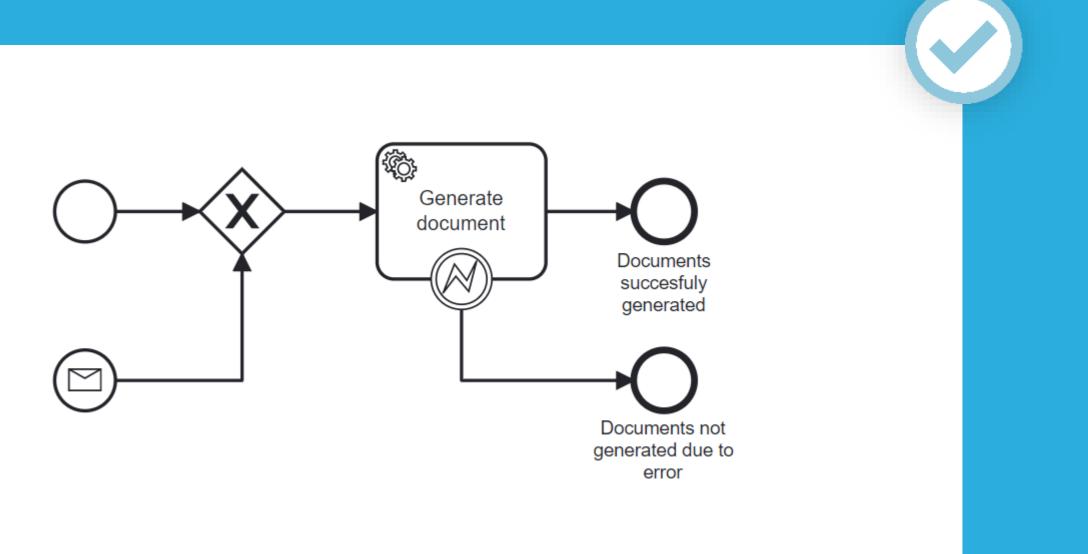


#### Note 2:

Different outcomes should always result in different end states.

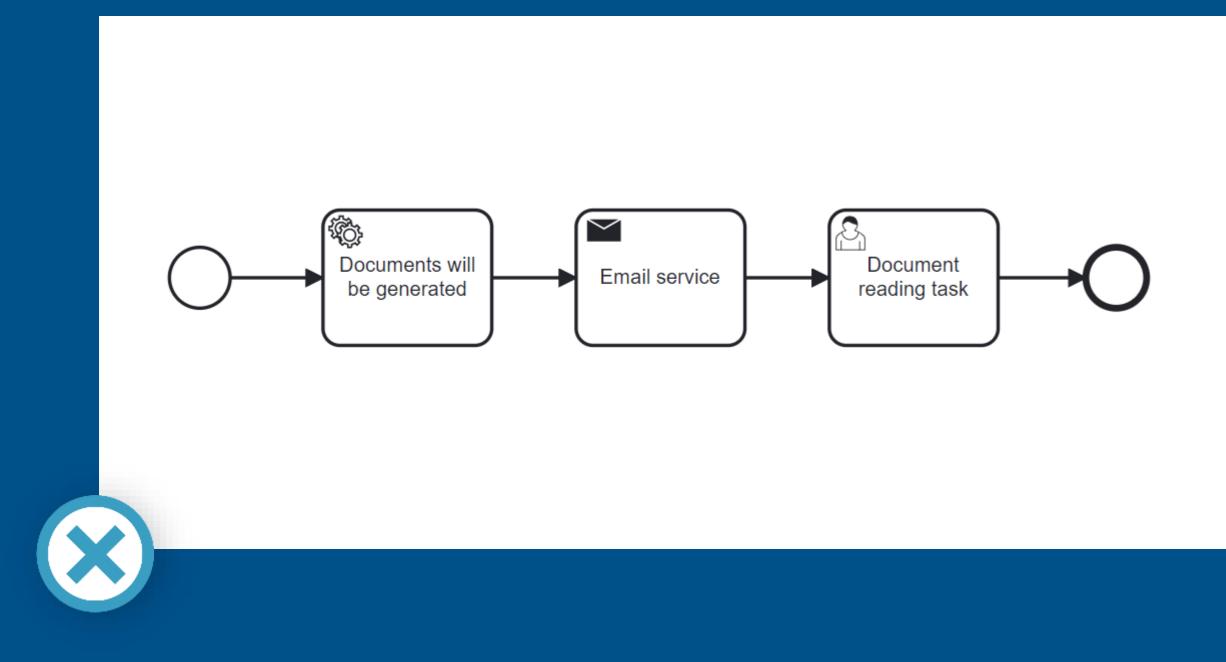
#### Note 1:

The label of any End event element should clearly indicate what is the exact outcome of a process instance in that end state.





### 2.3 Workflow task

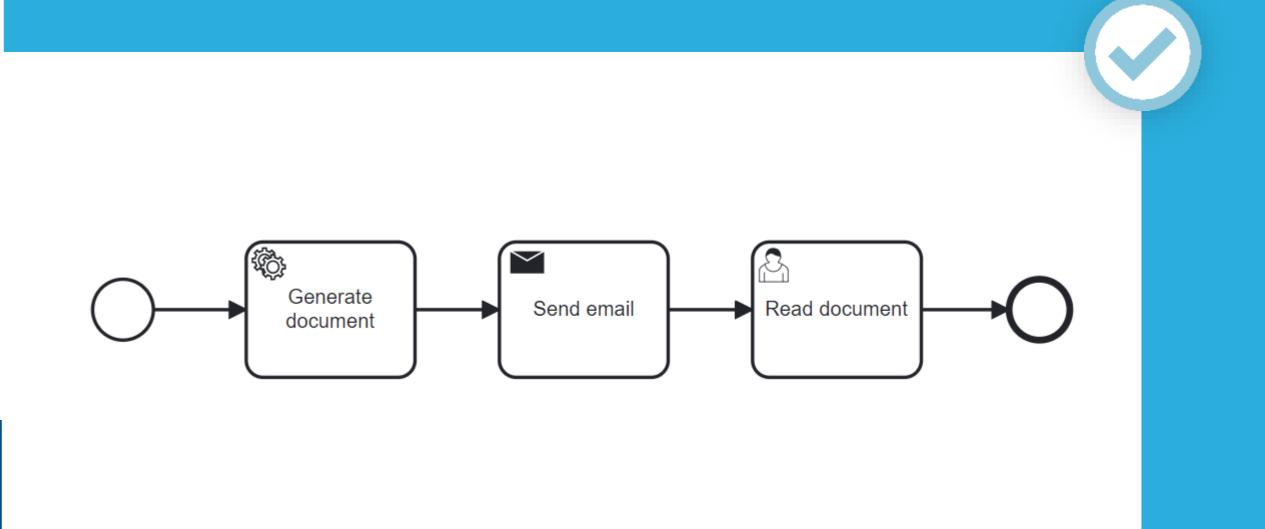


#### Note 2:

Describe what activity is done within that specific task.

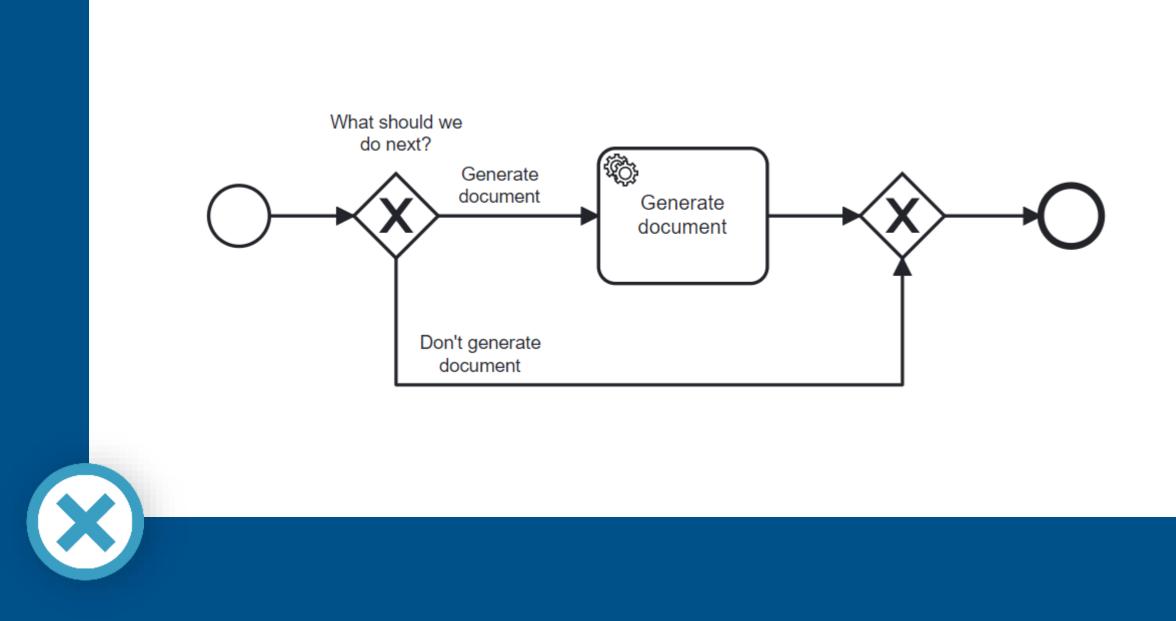
#### Note 1:

The label of a Task element should be written in an active state.





### 2.4 XOR gateway question

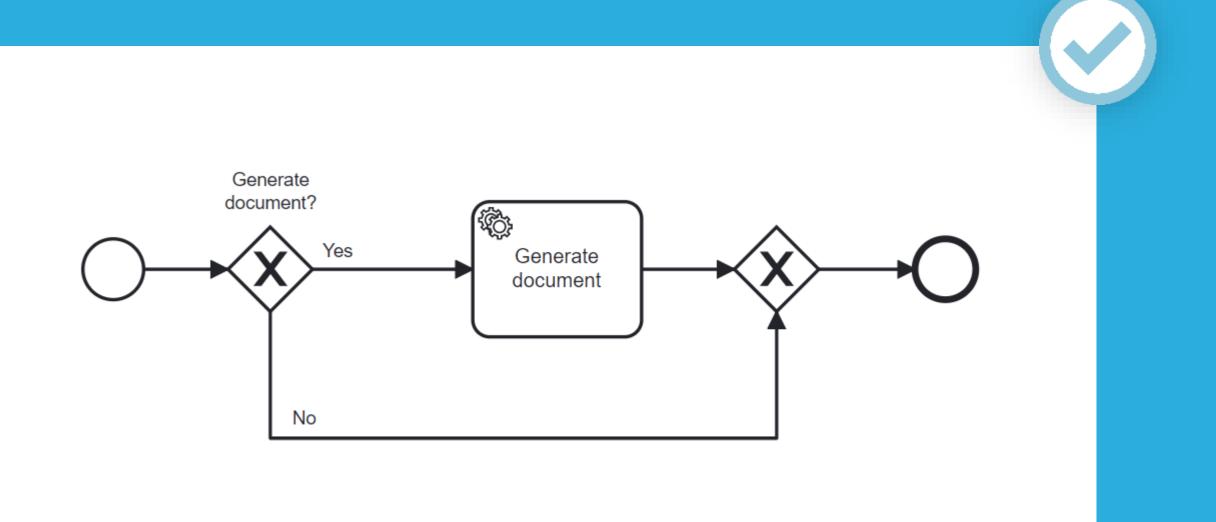


#### Note 2:

If possible, try to implement a yes/no question?

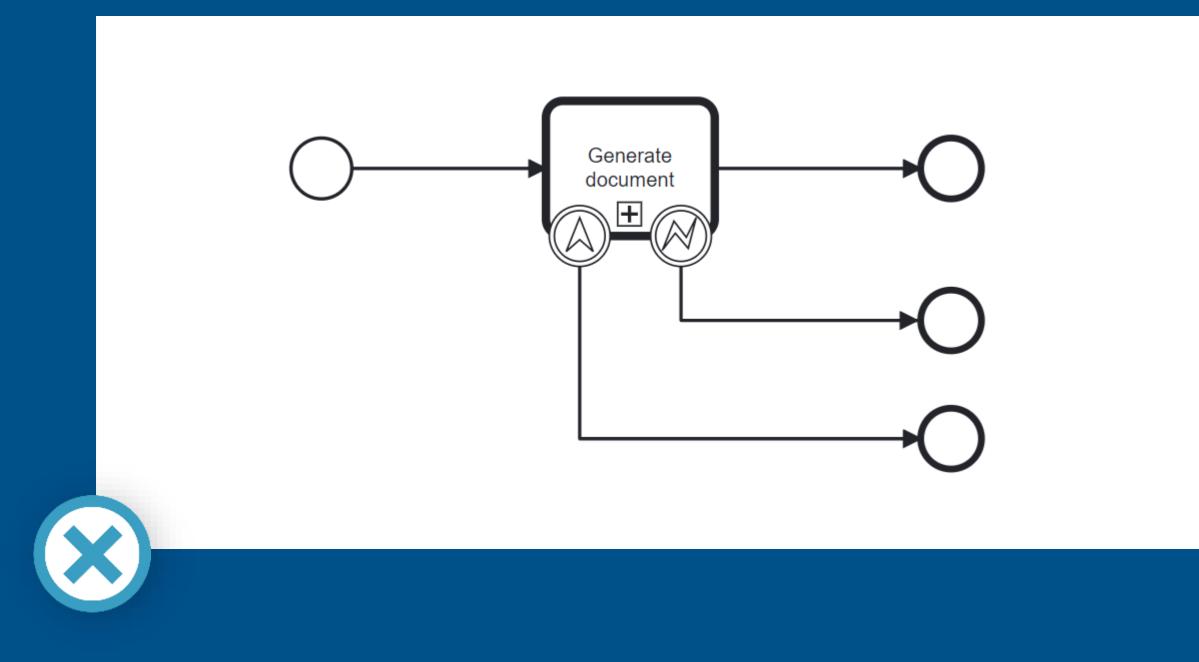
#### Note 1:

Specify a clear question that is as short as possible.





### 2.5 Boundary events

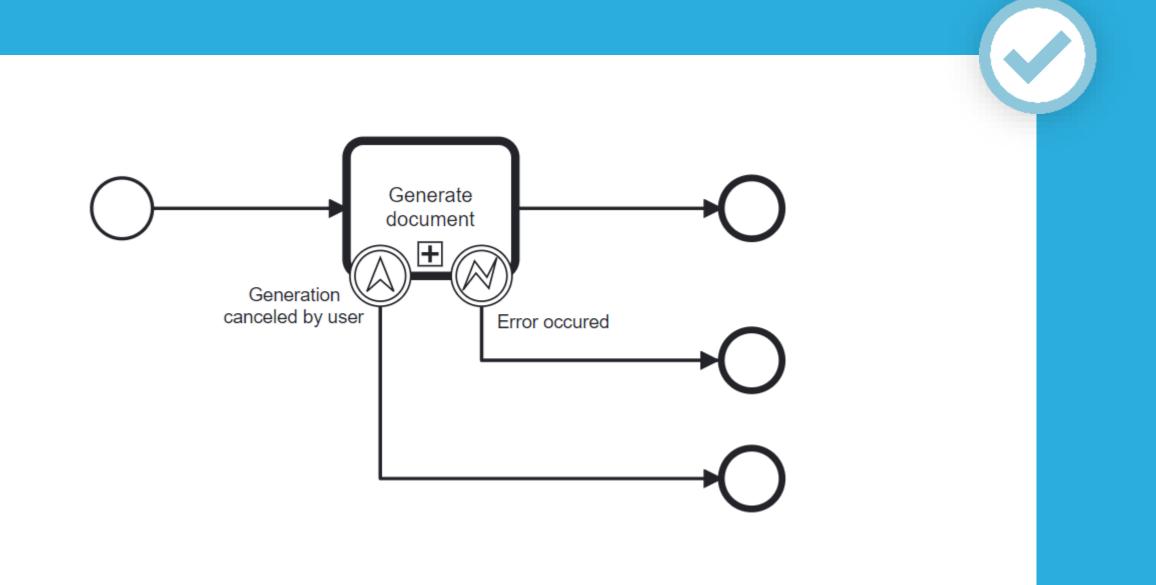


#### Note 2:

This will save you a lot of time in production support and will improve your dashboarding/monitoring.

#### Note 1:

Label all boundary events so you know what triggered them.





# Guideline categories

Flow

Flow guidelines help you model complex business processes and keeping it

Motation guidelines help you to clarify by labels what happens at every

visually clear.

step of the process.

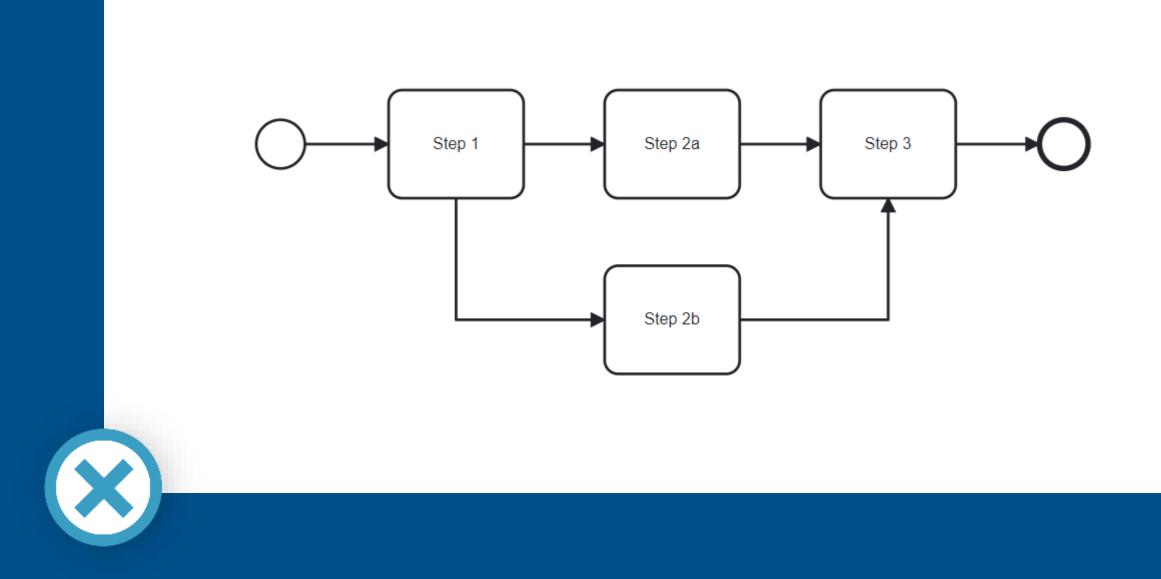
GS Modeling

Modeling guidelines help to make diagrams consistent and avoid any problems in your application.

G 4 Miscellaneous

Some modelling patterns we try to use as much as possible and some we try to avoid.

### 3.1 Explicit modeling

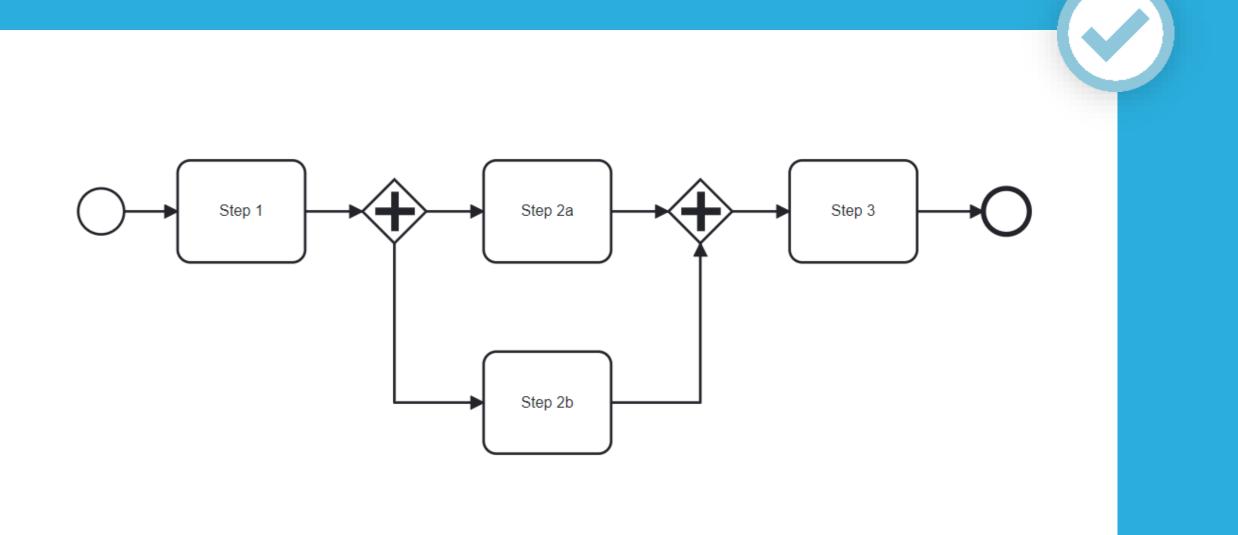


#### Note 2:

These two examples are not even functionally the same. The diagram on the left could lead to unwanted duplicate process instances.

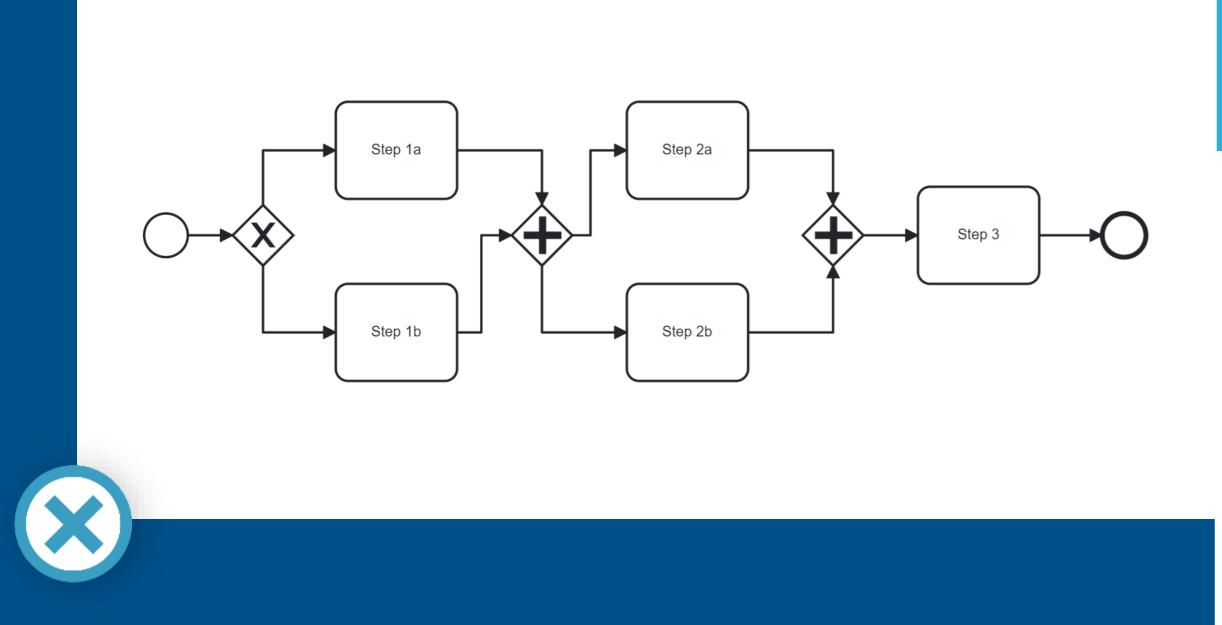
#### Note 1:

Always make clear what is going on with the use of gateways. Never split or merge branches without them.





### 3.2 Use more XOR gateways

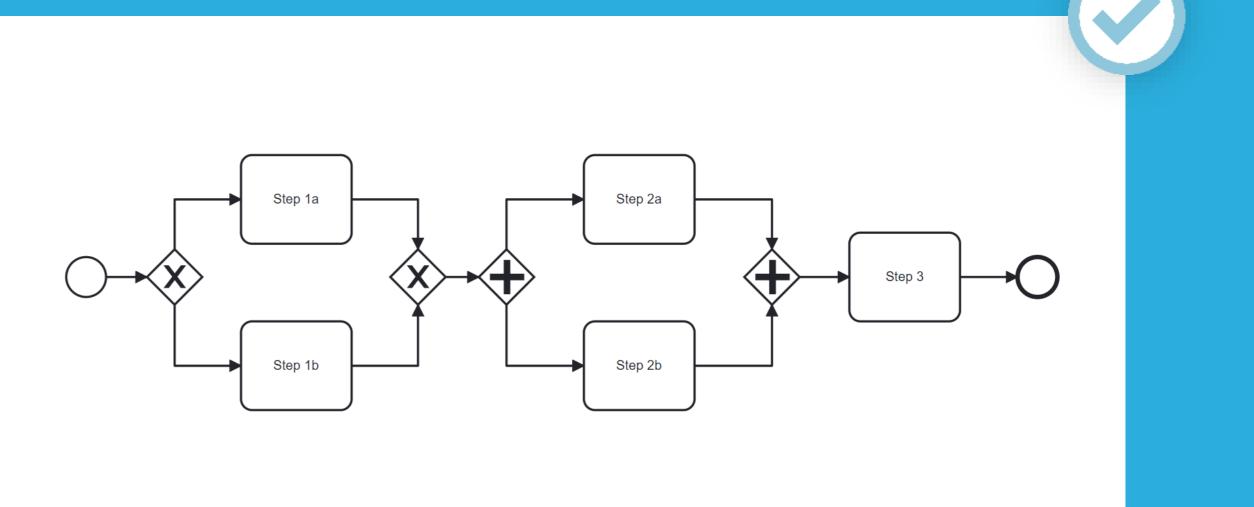


#### Note 2:

A gateway should have only one function.

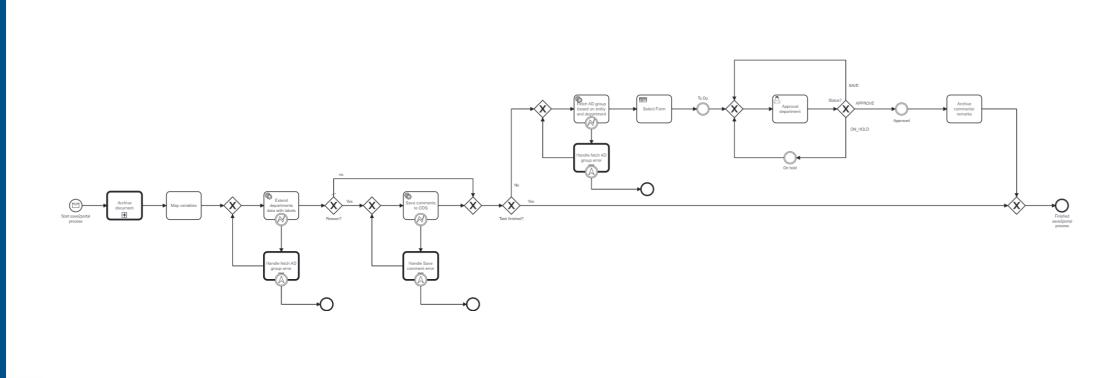
#### Note 1:

Always use separate gateways to merge and split branches.





### 3.3 Use subprocesses



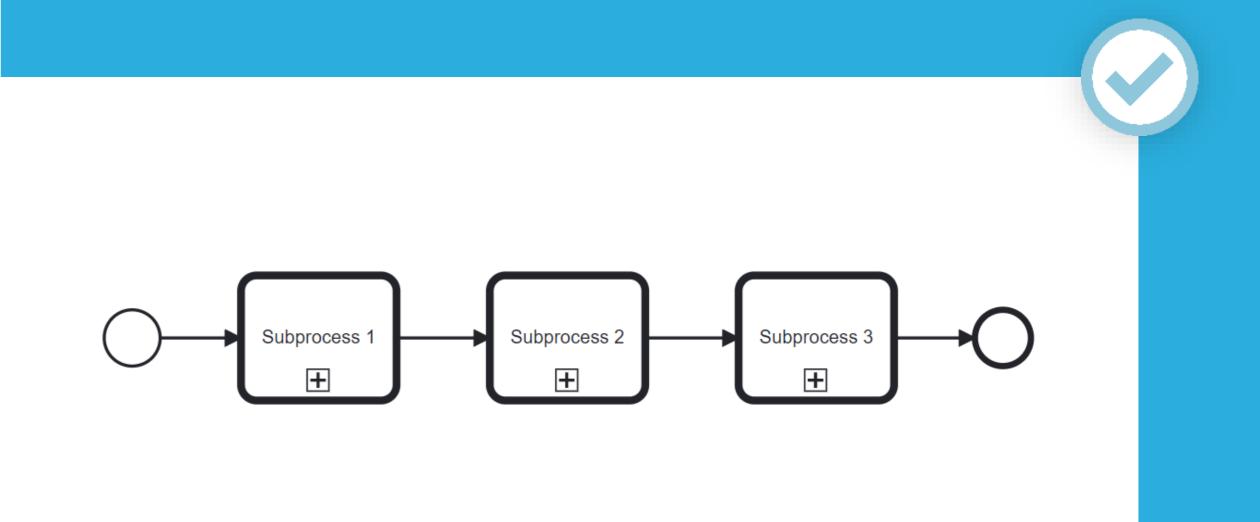


#### Note 2:

Try to think in subprocesses in an early stage, to avoid complex refactoring later.

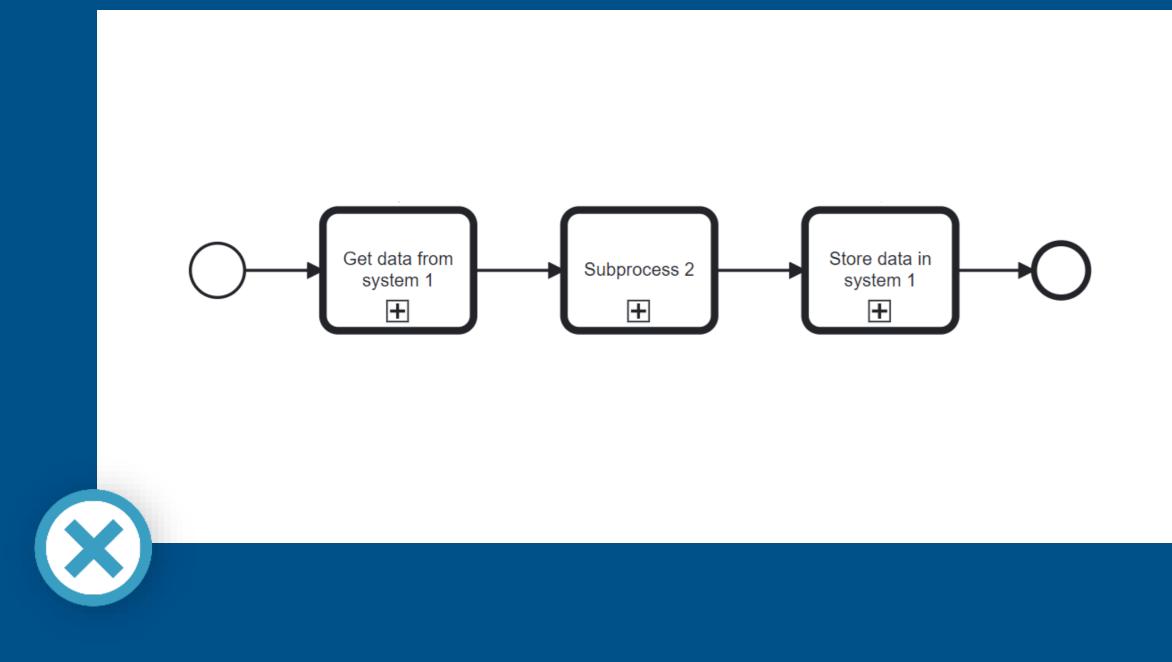
#### Note 1:

When a (sub)process gets too complex to clearly present to a user, you need to refactor and start creating subprocesses.





### 3.4 Re-use subprocesses

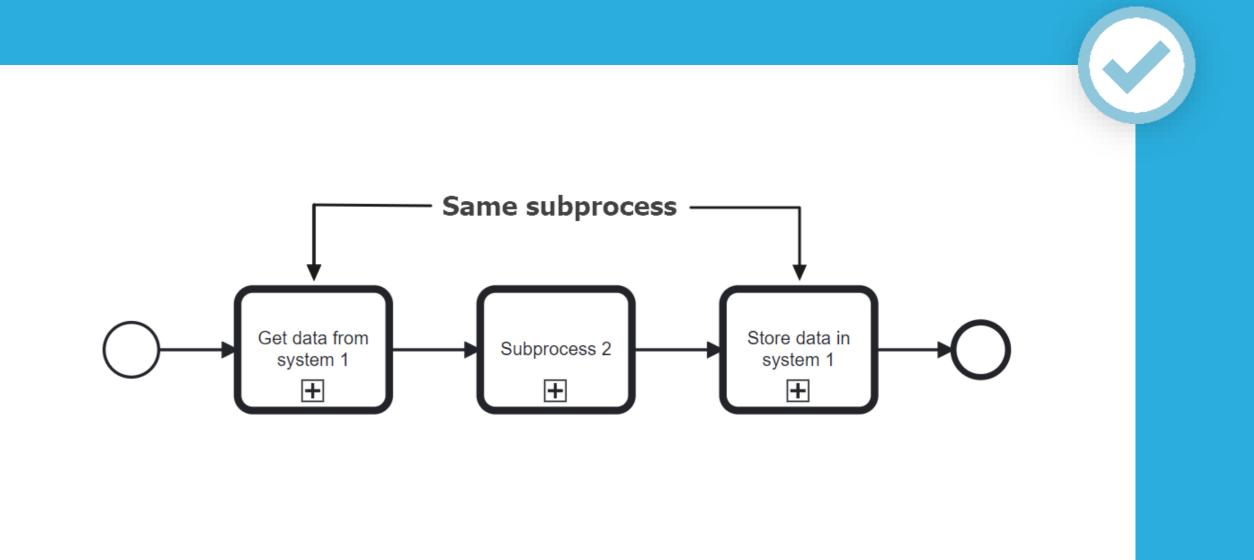


#### Note 2:

For example, if you make multiple calls to the same external application. You can model a generic subprocess and re-use it.

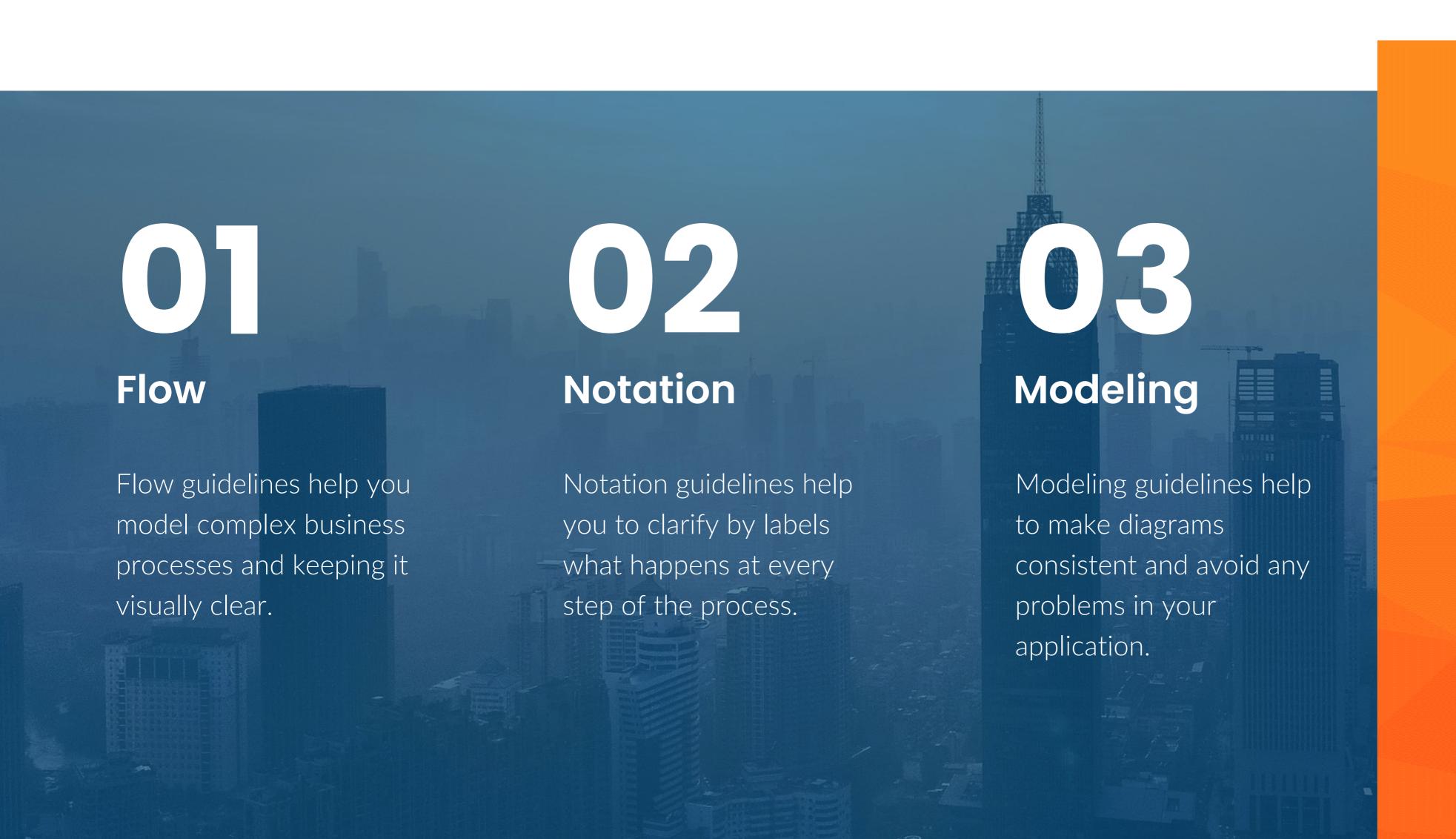
#### Note 1:

When creating subprocesses think about re-usability.



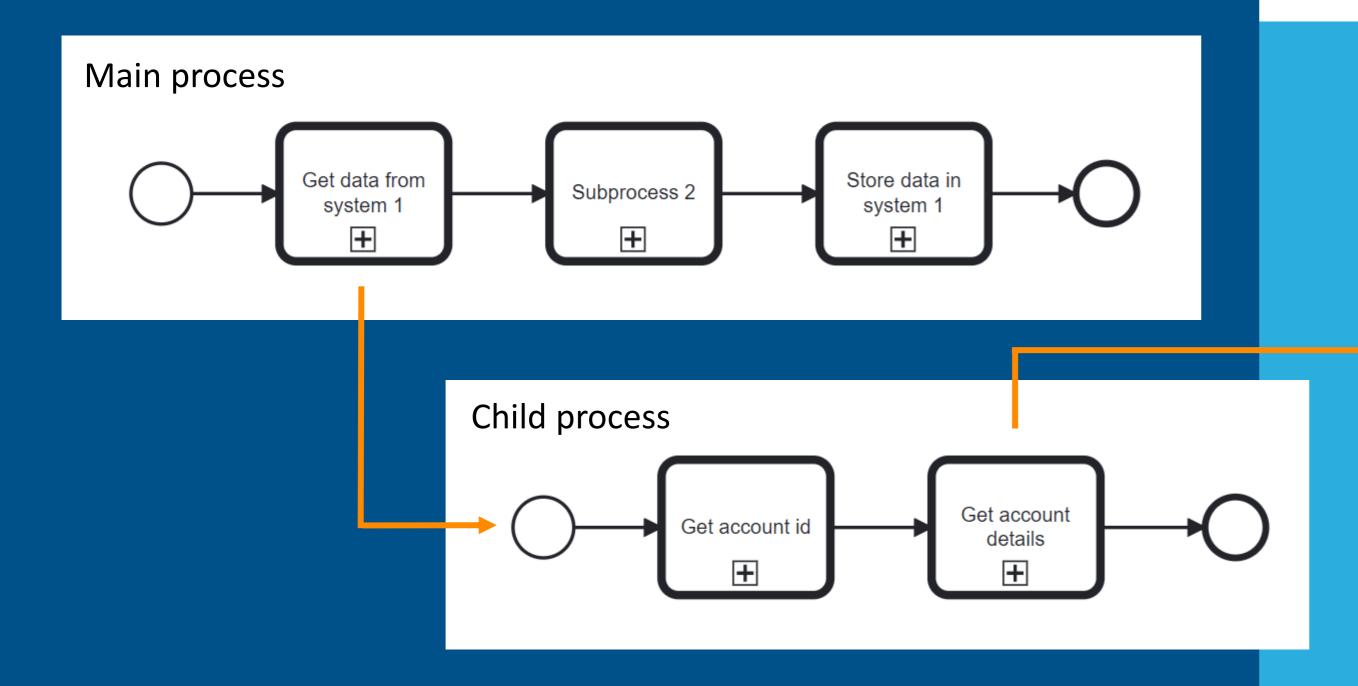


# Guideline categories



Some modelling patterns we try to use as much as possible and some we try to avoid.

### 4.1 Use level of diagrams

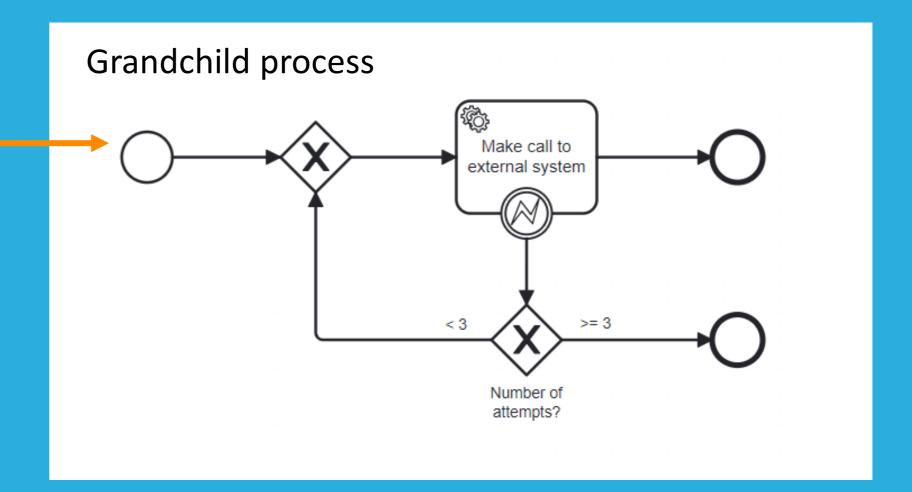


#### Note 2:

The deeper you go into the diagram levels; the more technical details can be used.

#### Note 1:

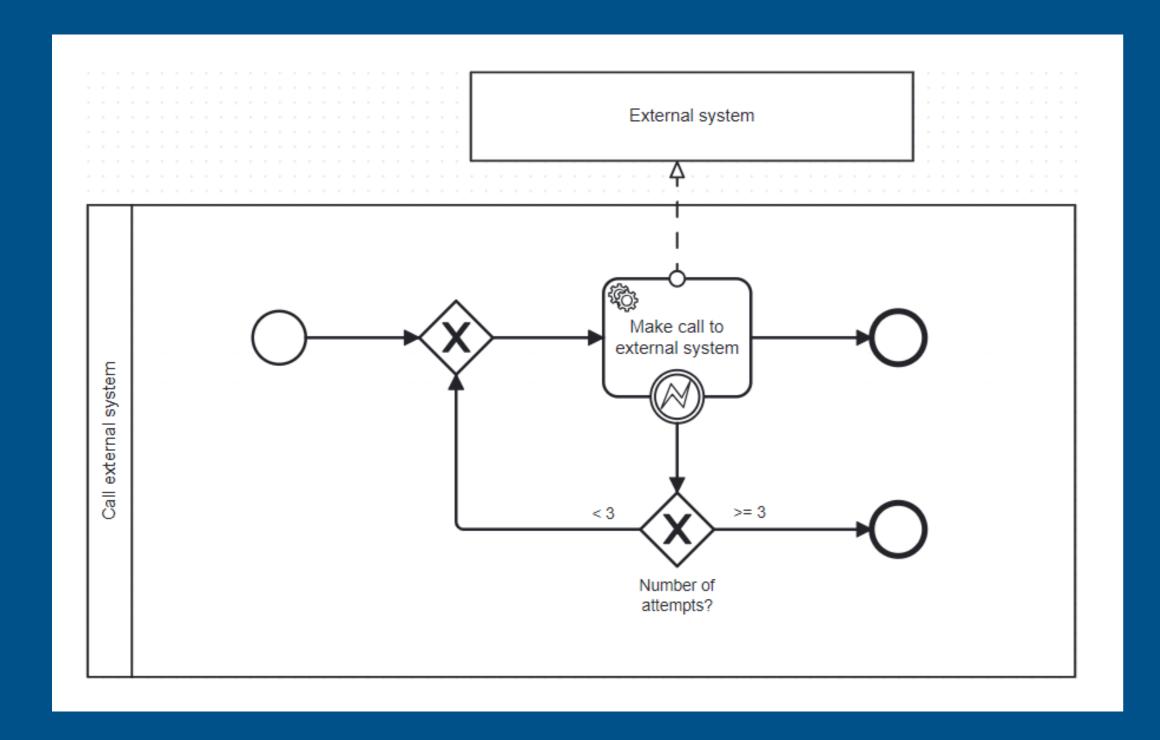
Model your highest-level diagram so it is clear to all users of the system, and it is an overview of the entire process.







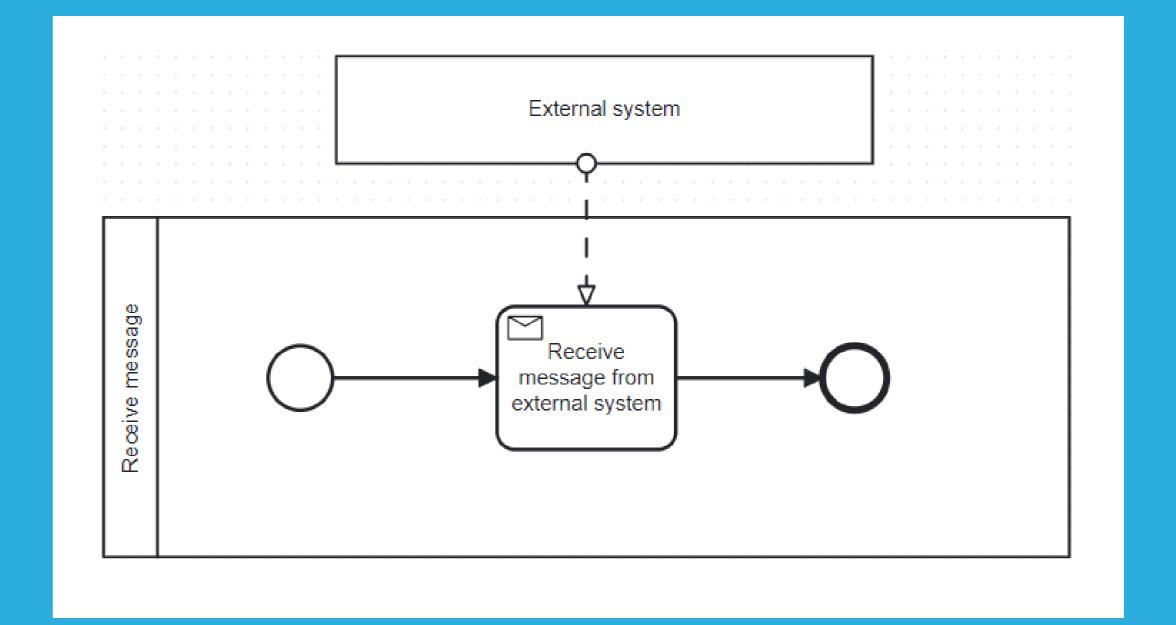
### 4.2 Use collapsed pools



Note 2:
An easy way is to use collapsed pools for this.

#### Note 1:

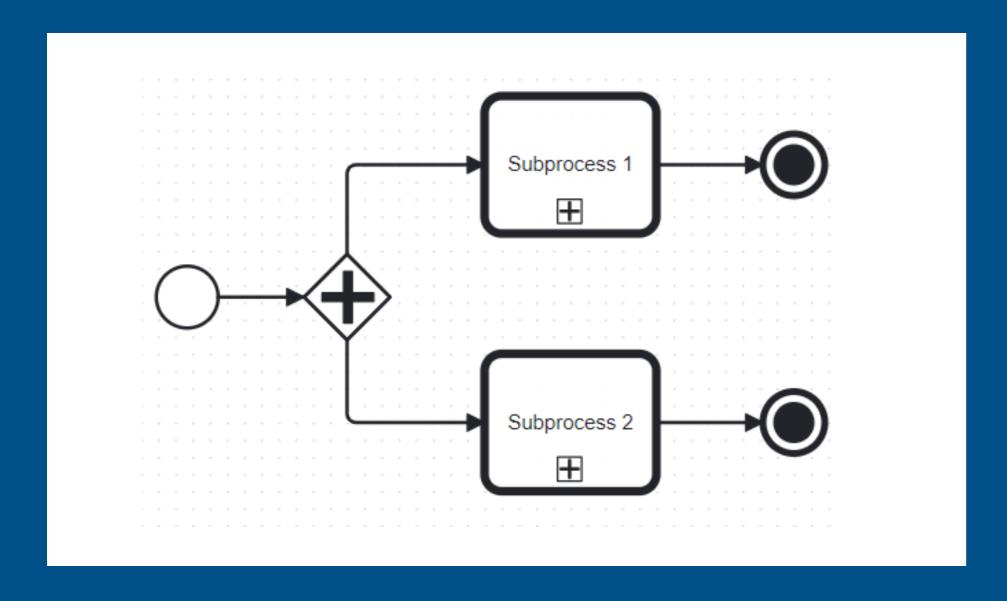
When we make a call to an external system, we want to make that clear in our diagrams.







### 4.3 Elements to avoid



#### Note 2:

There is probably a better way to model your process and maybe your models need a good refactoring.

#### Note 1:

When you think you need the Terminate end event or the Signal events, look for possible ways to avoid it.

