

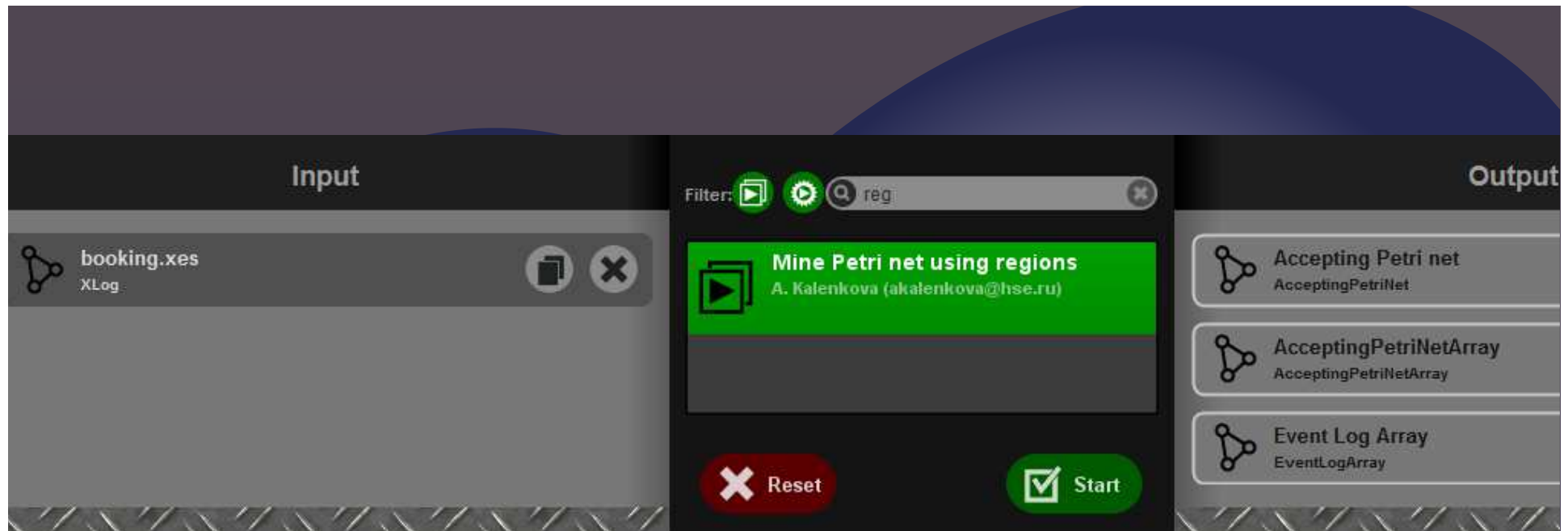
Discovery of Petri nets using localized logs in ProM {

An event log in XES format:

```
<event>  
    <string key="region" value="personal payment "/>  
    ...  
</event>  
<event>  
    <string key="region" value="payment"/>  
    ...  
</event>
```

Every event in a log can belong to a region or to a set of regions.

If event belongs to a set of regions, they are separated by space (see the example above).

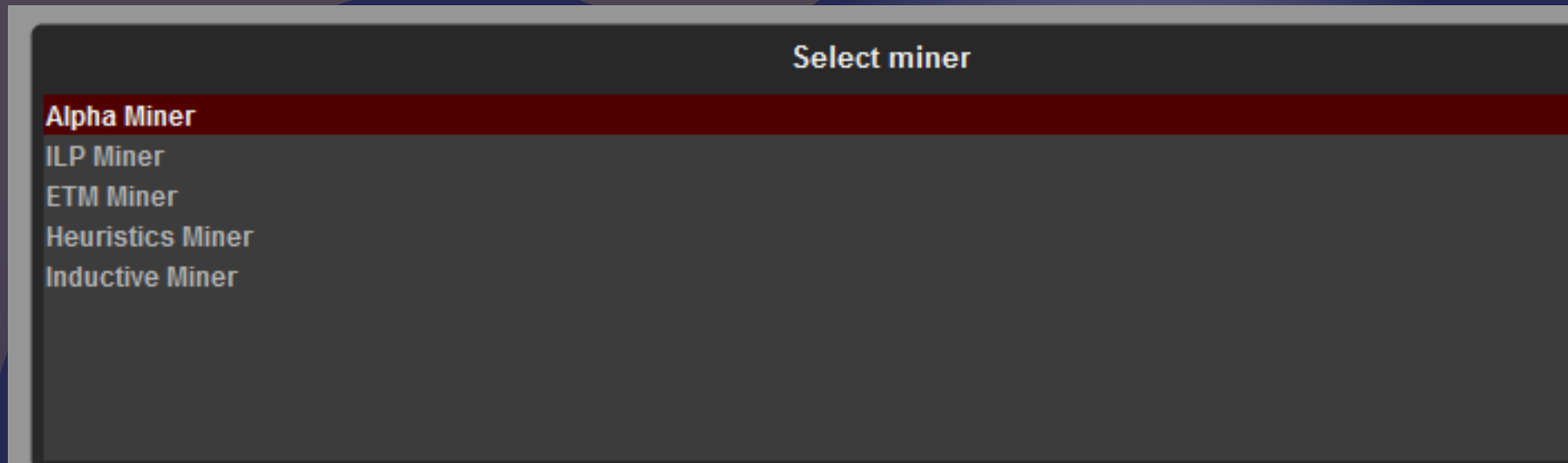


A plugin “Mine Petri net
using regions”

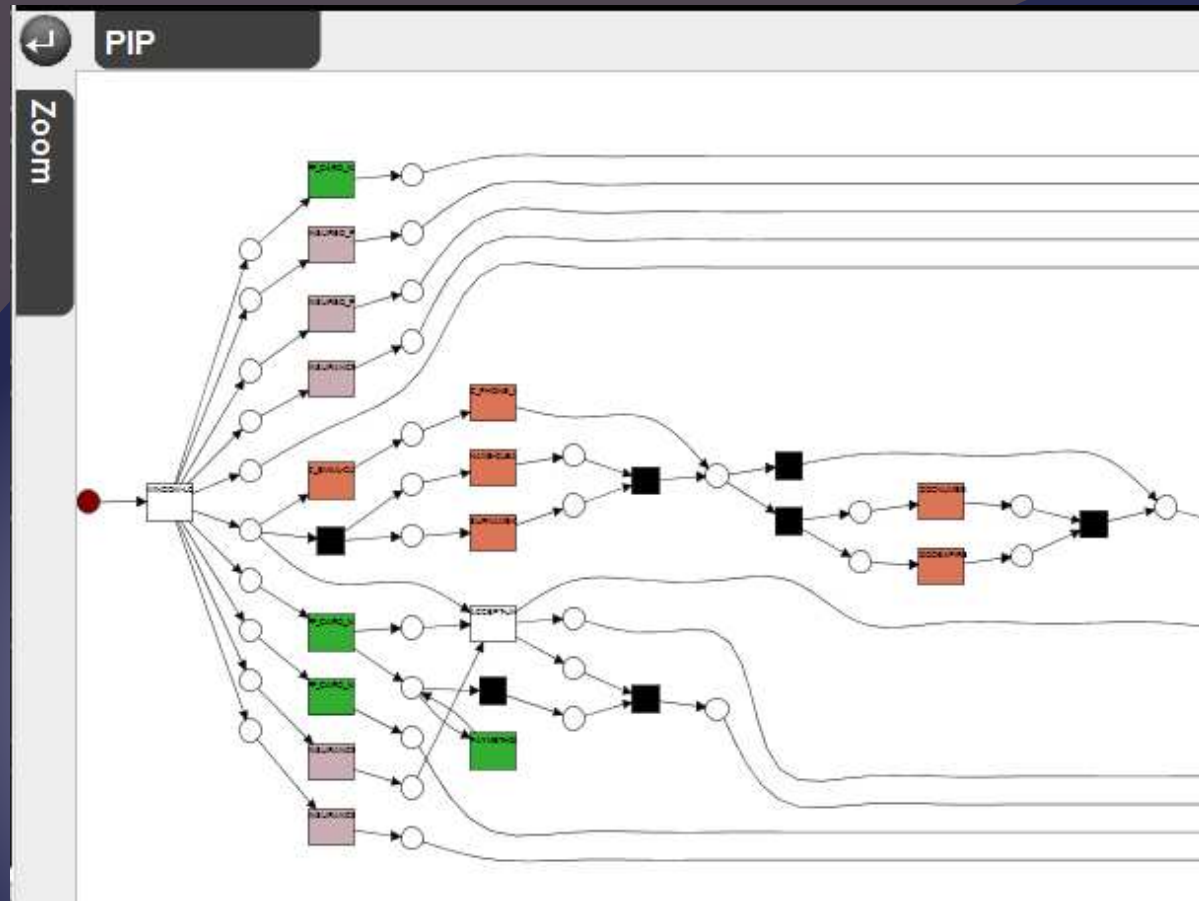
Select region name

Type
org:resource
concept:name
lifecycle:transition
time:timestamp

Any event attribute can be considered as a region



- 1) Sublog is derived from the log for each region
- 2) Submodel is constructed for each sublog by applying one of the discovery methods (see the screenshot)



3) The nets are merged (regions are highlighted in different colors)

If log explicitly contains shared events with additional “send/receive” attributes a BPMN model of interacting process can be constructed.

