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Practical Process Mining (II)

Master CD&IC

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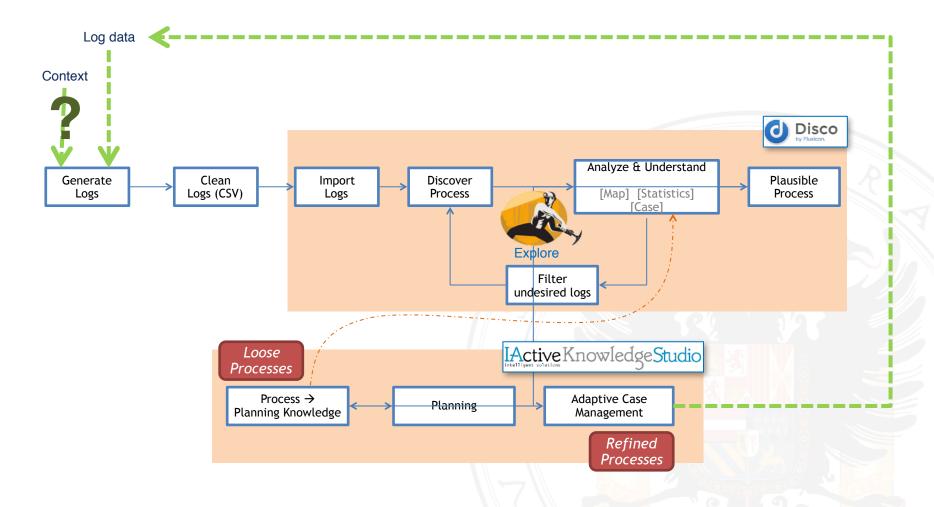
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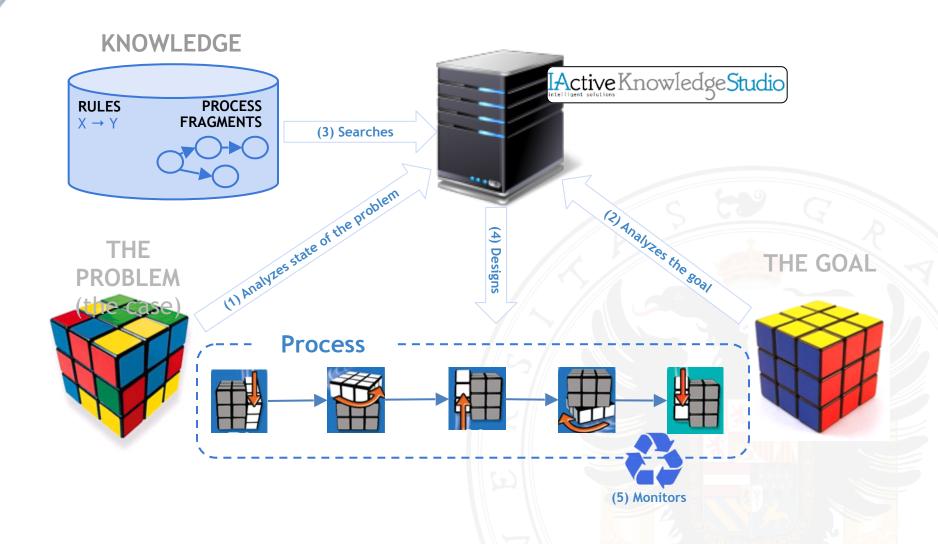


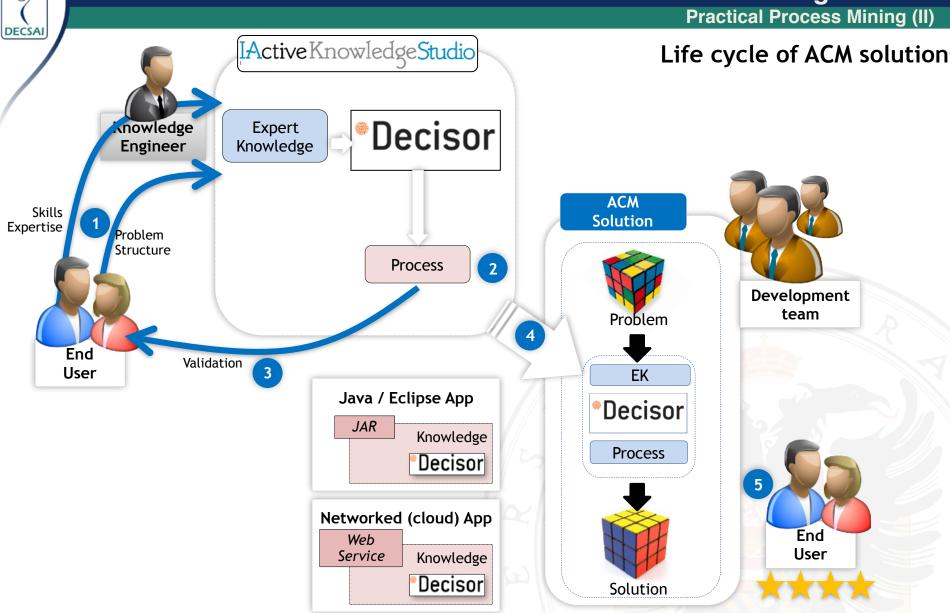
Departamento de Ciencias de la Computación e Inteligencia Artificial



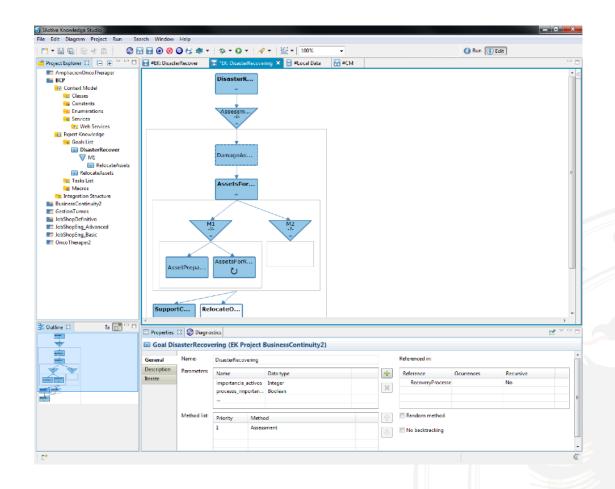
1. Introduction to practical Process Generation and Adaptive Case Management with Knowledge Studio







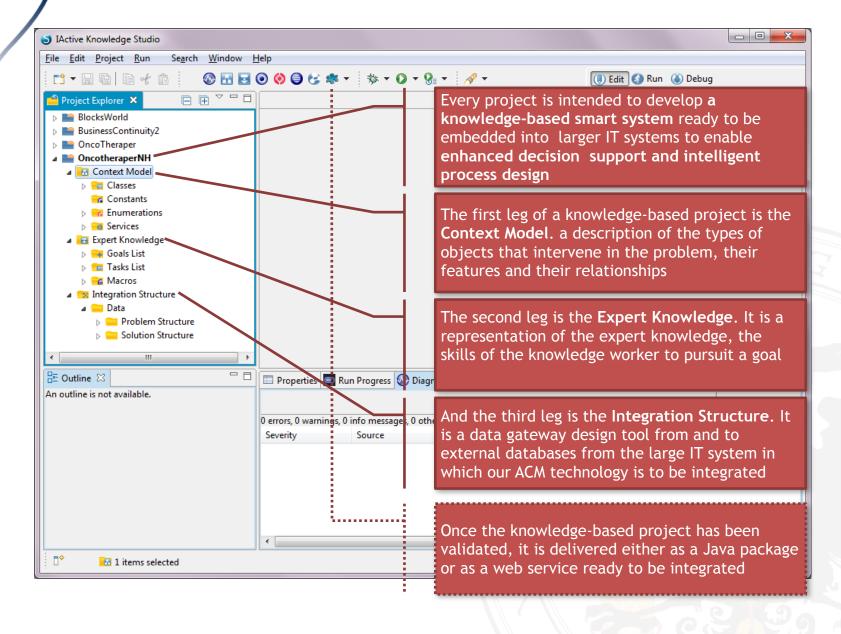




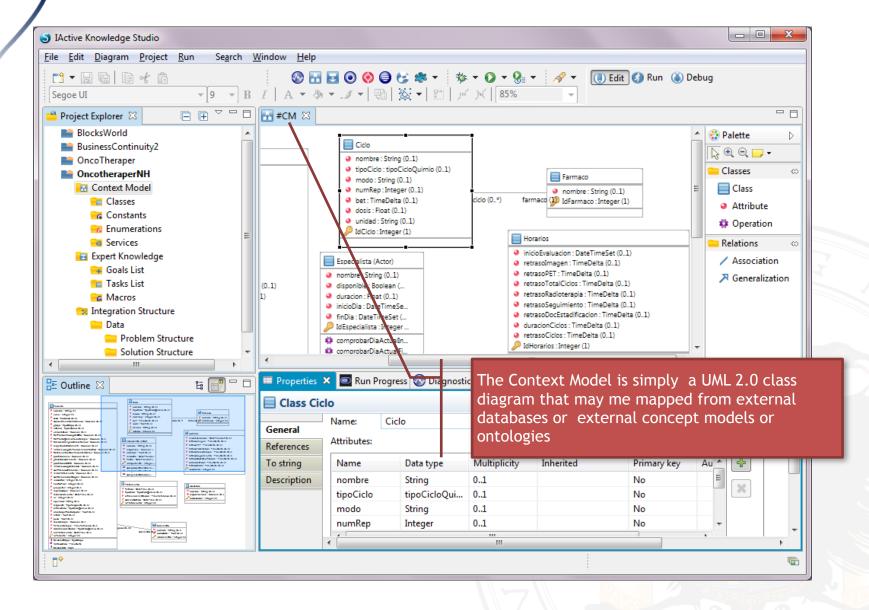




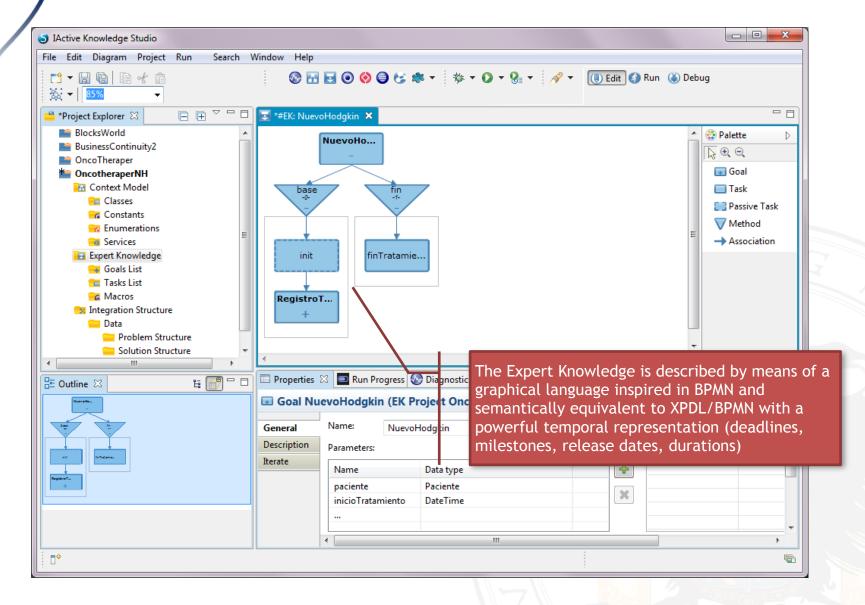












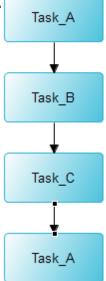


 Knowledge Studio formalism for representing processes is all about how to achieve a given goal

> Goal 1 +

Goals can be achieved by means of processes, i.e.,

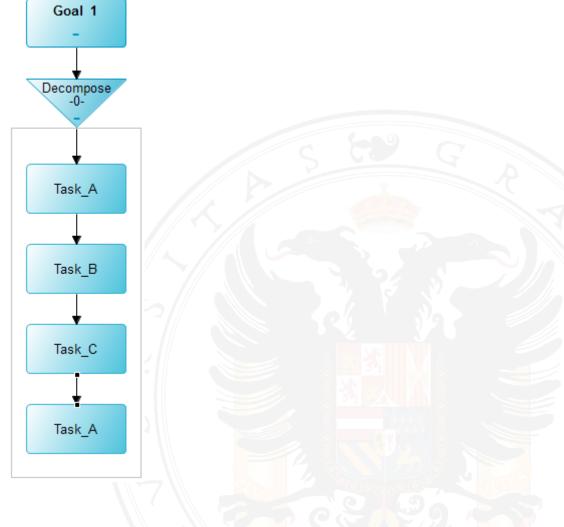
sequences of t





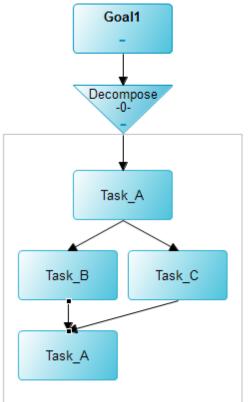
A goal can be decomposed into a subprocess that solves

that goal





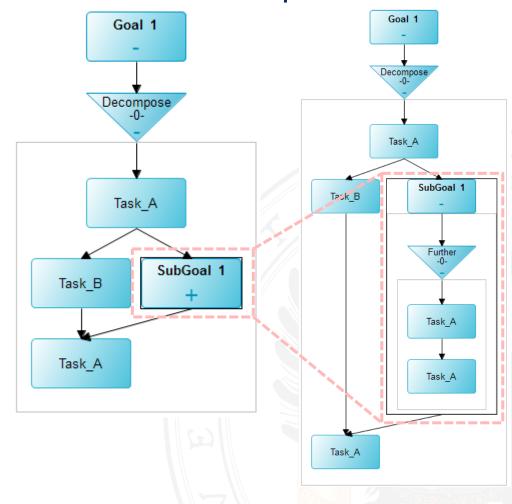
Subrocesses may have parallel branches as well



• With complex timing among them: "10 min before", "at the same time", "no later than", "exactly at"

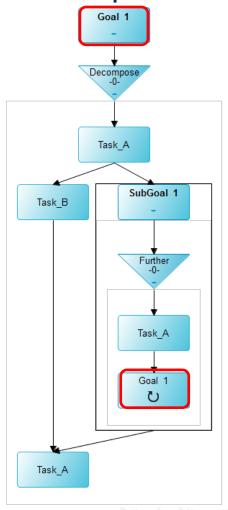


Subprocesses might be further decomposed





Subprocesses might also be repeated

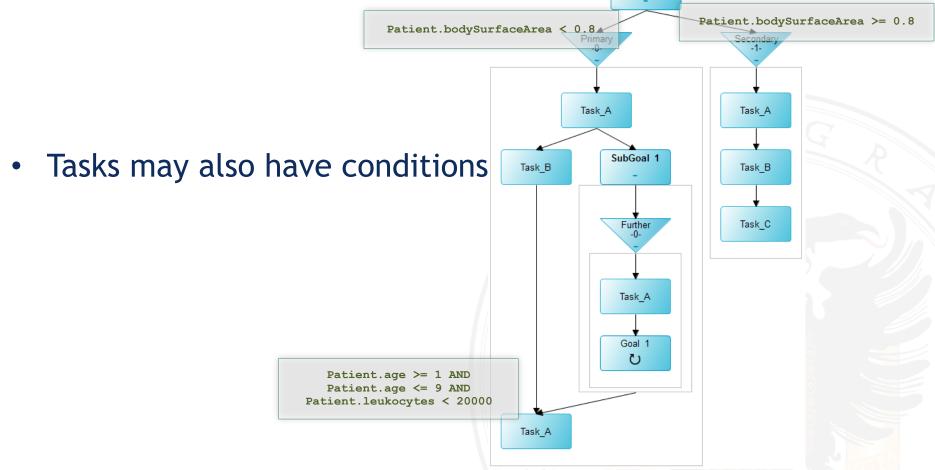


Goal 1



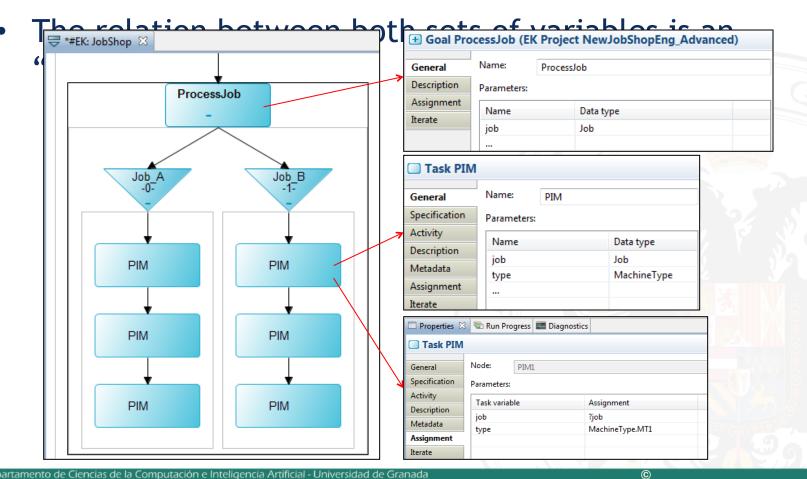
• A goal may have <u>alternative</u> decompositions guided by

conditions

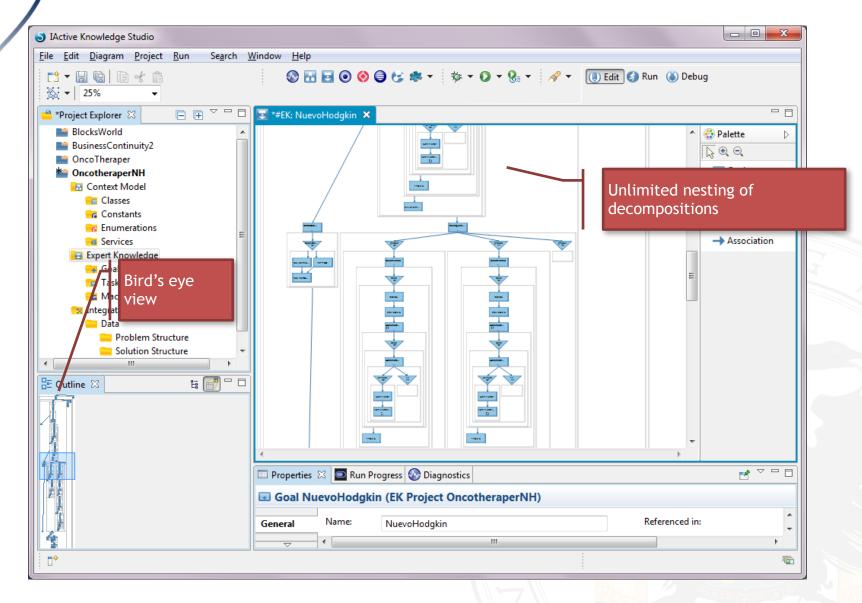




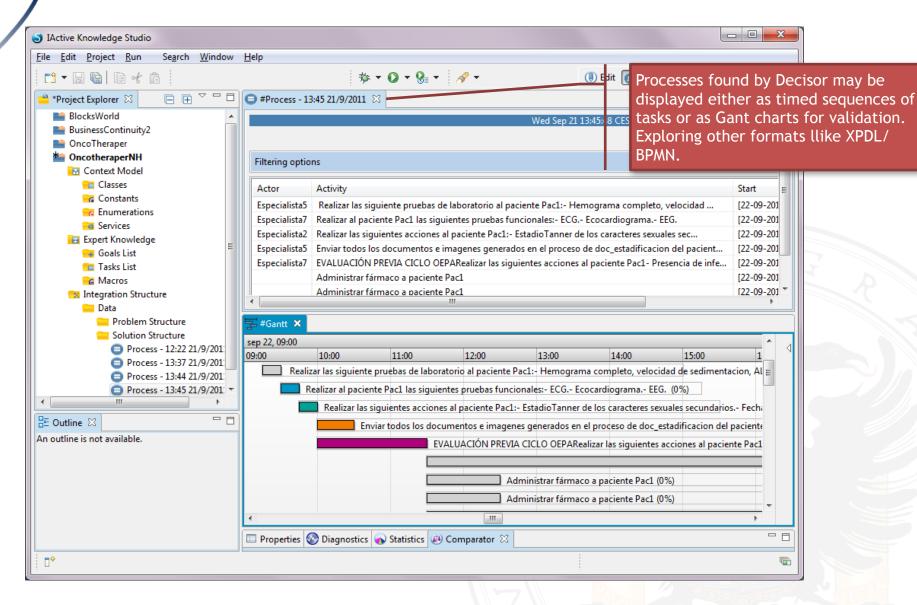
Goals may have input parameters which could influence their achievement. And so do its constituent Tasks and SubGoals





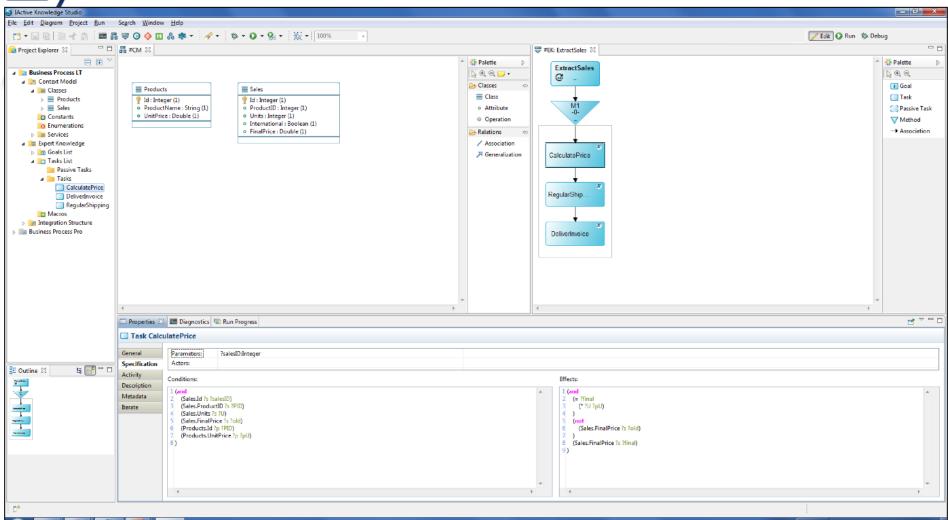






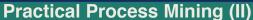


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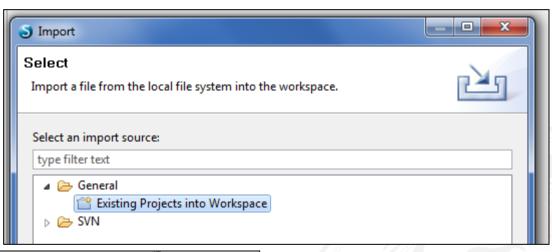


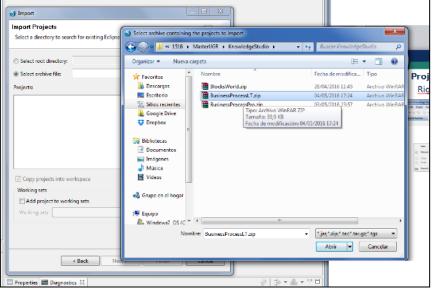


Project 1: Tiny Business Process

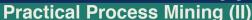
Right click on "Project Explorer" > "Import" > "Existing Projects into Workspace"
"Select archive files" > "BusinessProcessLT.zip"







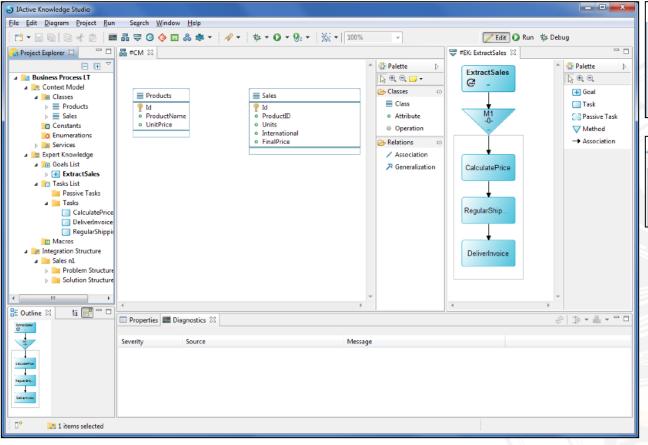


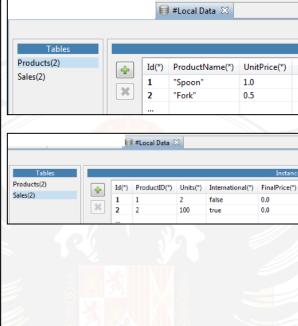




Project 1: Tiny Business Process

- Expand components "Context Model"
- Expand "Integration Structure" > "Sales n1" > "Problem Structure" > "Local Data"
- Expand "Expert knowledge"





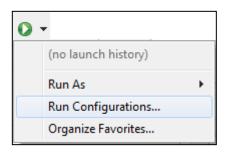


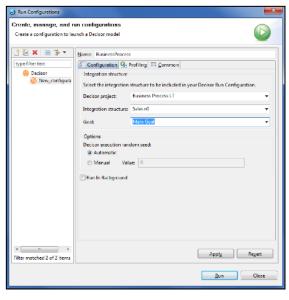
Practical Process Mining (II)

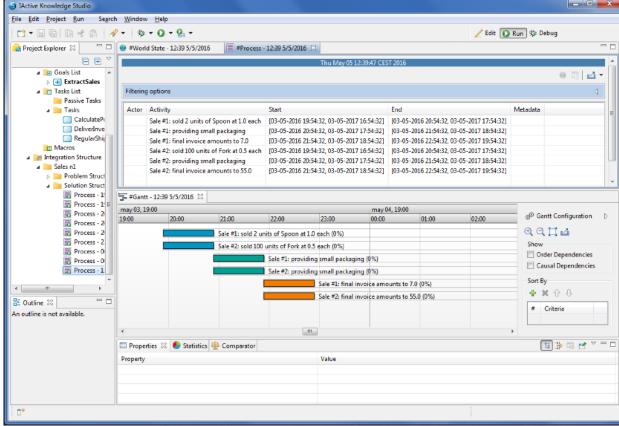


Project 1: Tiny Business Process

- Create a run environment > "Apply" > "Run"
- Both sales follow the same process and schedule





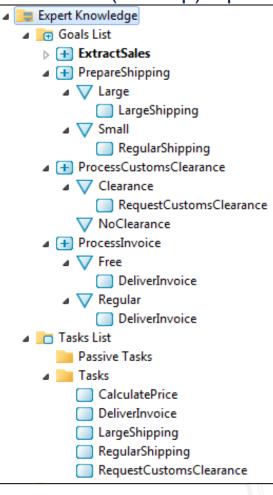


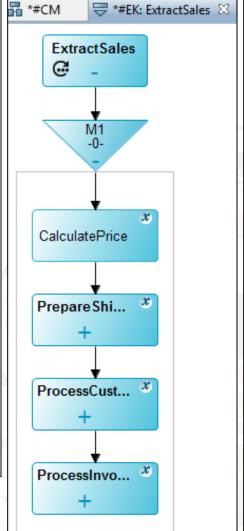
Practical Process Mining (II)

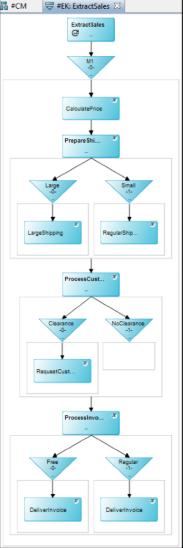
Project 2: Adaptive Business Process

- "Project Explorer" > "Import"
 - > "BusinessProcessPRO(incomp).zip"
- I. <u>Create new Tasks</u>
 - 1. LargeShipping
 - 2. RequestCustomsClear ance
- 2. <u>Create new Go</u>als
 - 1. PrepareShipping
 - 2. ProcessCustomsCleara nce
 - 3. ProcessInvoice
- 3. <u>Create two methods for</u> each new Goal
 - 1. PrepareShipping
 - 1. Large (>2 u.)
 - 2. Small (<= 2u.)
 - ProcessCustomsCleara nce
 - 1. Clearance (when intl)
 - 2. NoClearance
 - 3. ProcessInvoice
 - 1. Free (> 20€)
 - 2. Regular (<= 20€ +5€ delivery)

ADAPT PROCESSES TO THE CONTEXT







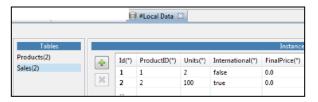


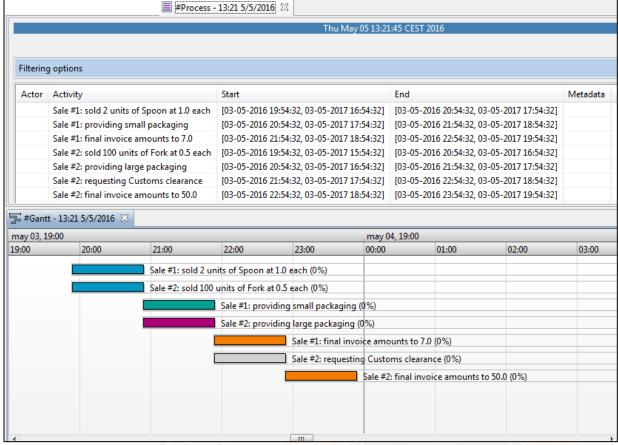
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Project 2: Adaptive Business Process

- Redesign subprocesses to fit the goals of adaptive generation
- Create a new run environment
- Each sale follows a different process, schedule and final price







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Project 2: Adaptive Business Process

- Export project as "BusinessProcessPro.zip"
- Take screenshots of both process and Gantt chart
- Send them to the teacher < 15/JUN/2018

