### Ricetta de la pasta a la lausannese

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#### Lasagne or spaghetti?

Fusilli, penne, farfalle, maccheroni, tagliolini, tagliatelle, pappardelle, inslatonde, troffie, ravioli, rigatoni, conchiglioni, canneloni...



#### **City of Lausanne**











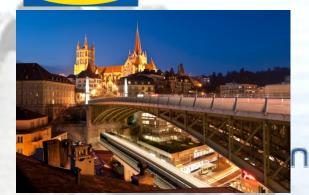














### Context of process mining in the City of Lausanne

- 2008: New ERP introduced for Human Ressources Dept
  - From 2008: difficult period for the Human Ressources Department
- 2008-2011: pilot study to set up an Internal Control System
  - Goal: reduce risks
  - Goal: process mapping
  - Goal: change management to support the e-gov program
  - Human Ressource Dept in the ICS pilot study
  - Risk identification & process mapping through interviews
- 2011: election of politicians to Lausanne City Council
  - Decisions frozen for 1 whole year!
  - New political orientation: budget cuts!
  - New political orientation: Stop the Internal Control Systems project
  - New political orientation: process optimisation



# Resource constrained I When politicians want results and reduce budgets

- Canton de Vaud is slow in legally enforcing ICS to communities
- Budget balance of City of Lausanne is negative for years now
- 2 big devellopemental projects forseen and close to start
  - New subway line
  - New ecological suburbs
- 30% of budget is for people salaries and cannot be reduced
- 20% of budget is enforced by law and cannot be changed
- => Pressure to optimise process (or to increase incomes)

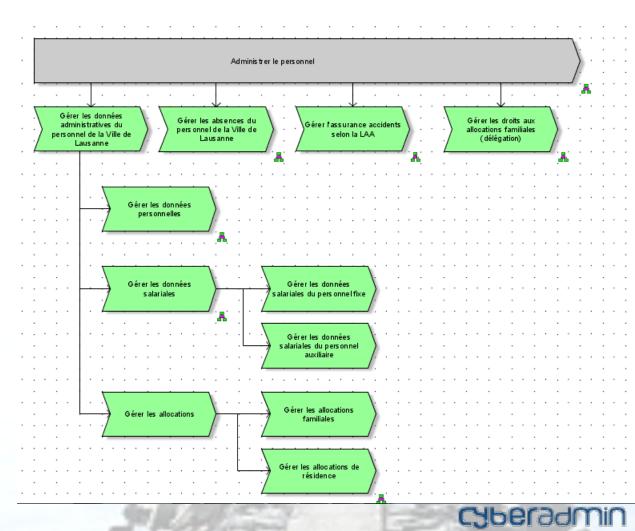
# Resource constrained II When colleagues consider that Process Mining is not their business

- Human Ressource Department overwhelmed by introducing a new ERP
- Because of political/organisationnal reasons, Human Ressources
  Department is a somewhat « weak » leader of the HR strategy
  of the city
- Human Ressource Department is understaffed
- Some people do not welcome changes

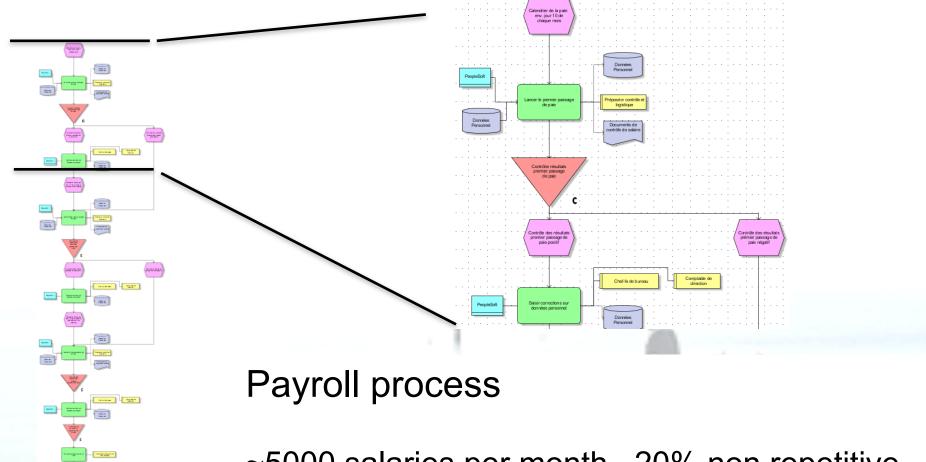


### HR Administrative Process How they see it (a)

- HR recording tasks
- A specially dedicated group of 6 people
- Transfer info from paper forms to HR ERP
- No managing power=> no changes...



### HR Administrative Process How they see it (b)



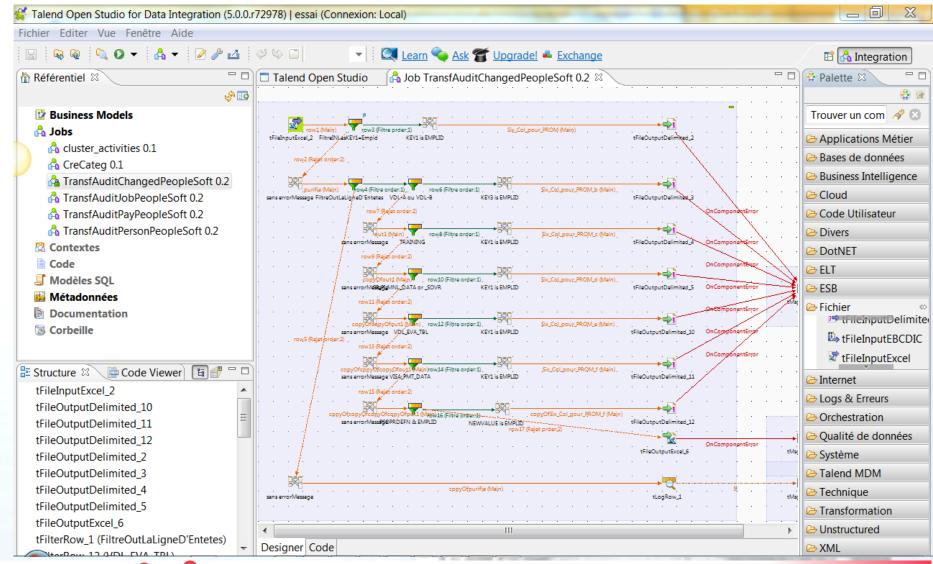
~5000 salaries per month, 20% non repetitive Old procedure from preceeding software tool => 4 controls per month...

....4 people close to burnout!

#### Now, la pasta a la lausannese! Step 1: getting the ingredients

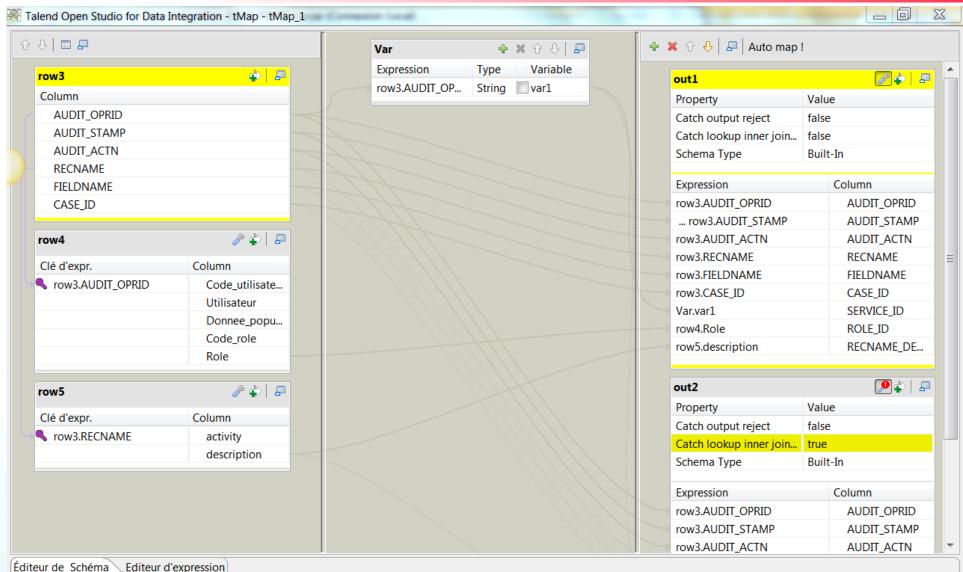
- Audit logs from HR ERP is CSV format
  - Columns Inhomogenous
- Statistics
  - About 3 years of data recording
  - 300k events
  - 12k cases
  - 34 activities
  - 258 ressources
  - 7 attributes
- Secondary files to enrich/decrypt information content
- Interviews with audit logs and ERP experts to understand data content

#### La pasta a la lausannese Step 2: Talend Open Studio

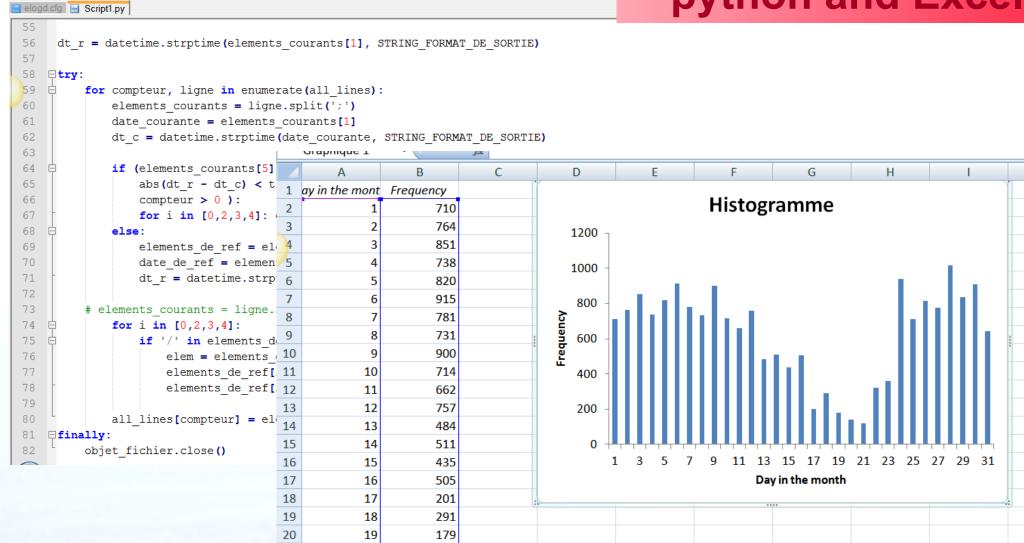




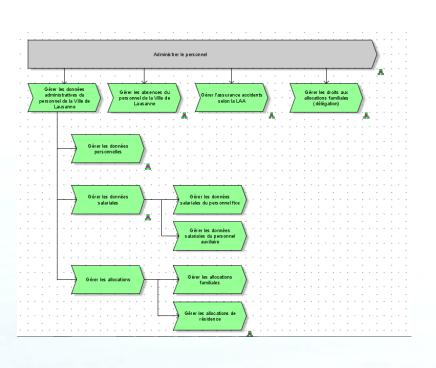
#### La pasta a la lausannese Step 2 bis: Talend Open Studio

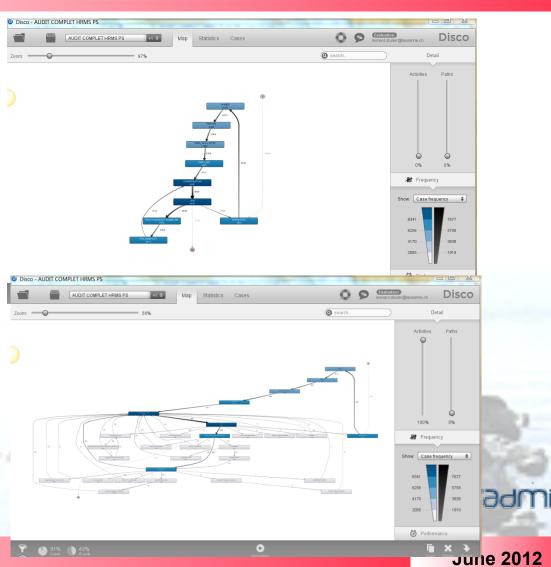


#### La pasta a la lausannese Step 3: don't forget slices of python and Excel

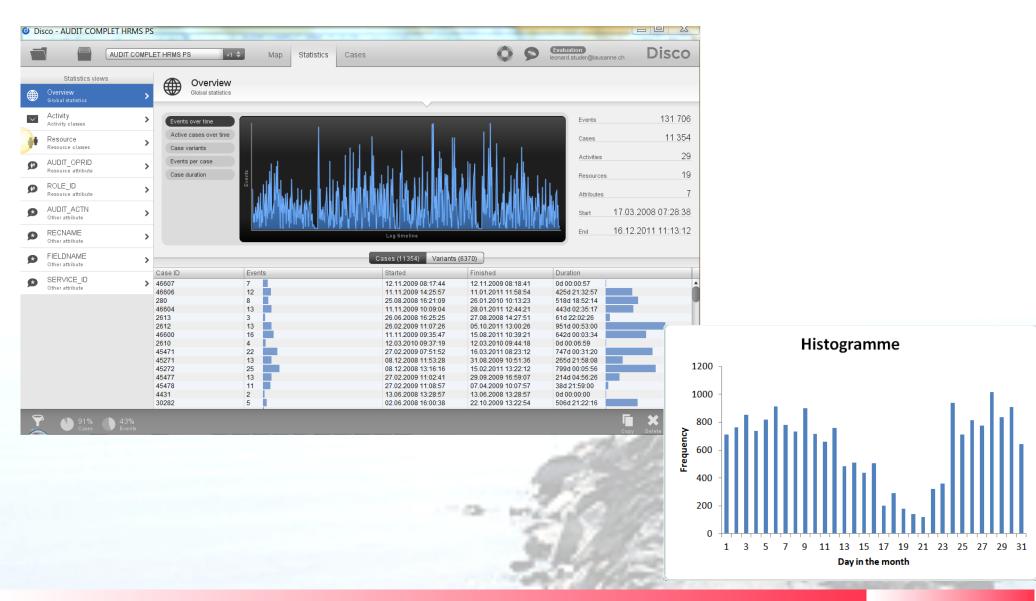


## Putting la pasta a la lausannese on the table Comparing how they thought they were doing and what I discovered

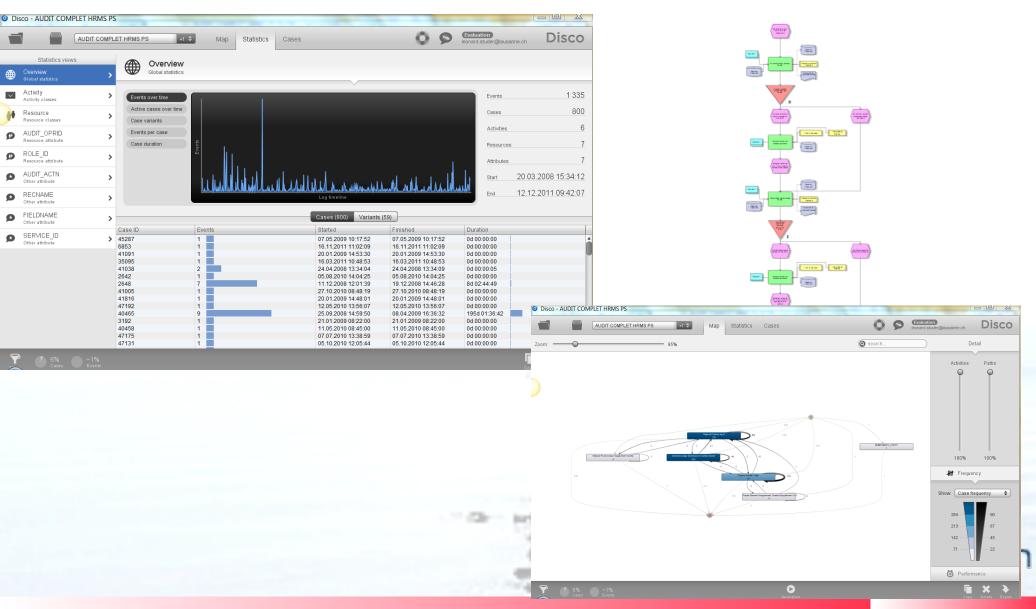




#### **HR Administrative Process**



#### **Payroll Process**



## How palatable is la pasta a la lausannese? When colleagues face the results of Process Mining

- The project manager in charge to set up the new ERP:
  - « My people are already strongly disturbed by the new ERP »
  - → Agreement to deliver Process Mining Results ... later
- Politicians want to reduce costs
  - Set up a major program to « Optimize the Administrative Processes »!
  - Process Mining + Records Management + Business Intelligence...
  - But only 4 people to carry out this program <sup>(3)</sup>
- Computer engineers
  - Please, tell me where are the audit logs!



## Second servings? Future plan, next step.

- The Optimize the Administrative Processes Program
- Special emphasis in going hand-in-hand with process actors
- E-gov program will include « data logs » requirements
- Strengthen the Busines Process Management skills among process actors
- Catalyze BI, RM and Process Mining



#### La pasta a la lausannese Enjoy!



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