



MoKi and the ProDe project

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It is a **Modeling Tool**;

Supports the integrated modeling of knowledge:

Static aspects (e.g. the organizational structure, the products, the documents, ...)



Ontology

Dynamic aspects (e.g, the procedures, the activities...)



Process Model

Fosters the **collaboration** between domain experts and knowledge engineers.



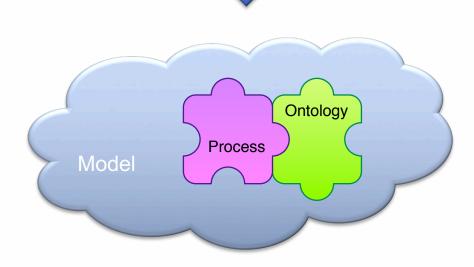
The research vision - architecture













An architecture for collaborative conceptual modeling

Collaborative modeling in a wiki

Mountain



A mountain is a large landform that stretches above the surrounding land in a limited area usually in the form of a peak. A mountain is generally steeper than a hill.

The highest mountain on earth is the

Mount Everest



(unstructured view)



is a	landform	
different from	hill, plain	
made of	earth	
made of	rock	
height	at least 2,500m	
samples	Mt. Everest Mt. <u>Kilimanjaro</u>	

(semi-structured view)



 $\sqsubseteq \neg Hill \sqcap \neg Plain$

 $\sqsubseteq \forall madeOf(Earth \sqcup Rock)$

 $\sqsubseteq \exists height. \geq_{2500}$

 $Mountain(Mt._Everest)$

 $Mountain(Mt._Kilimanjaro)$

(fully structured view)

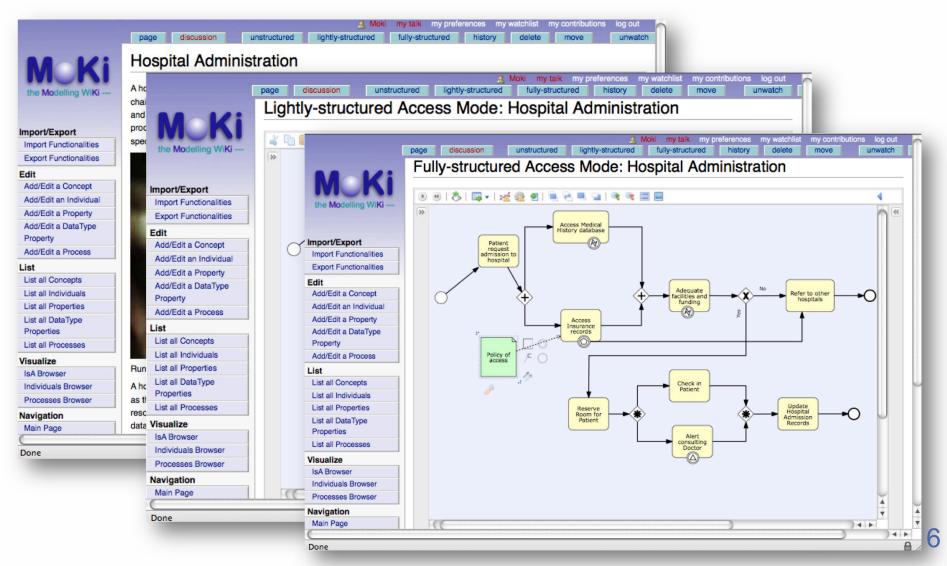


Different views for different roles



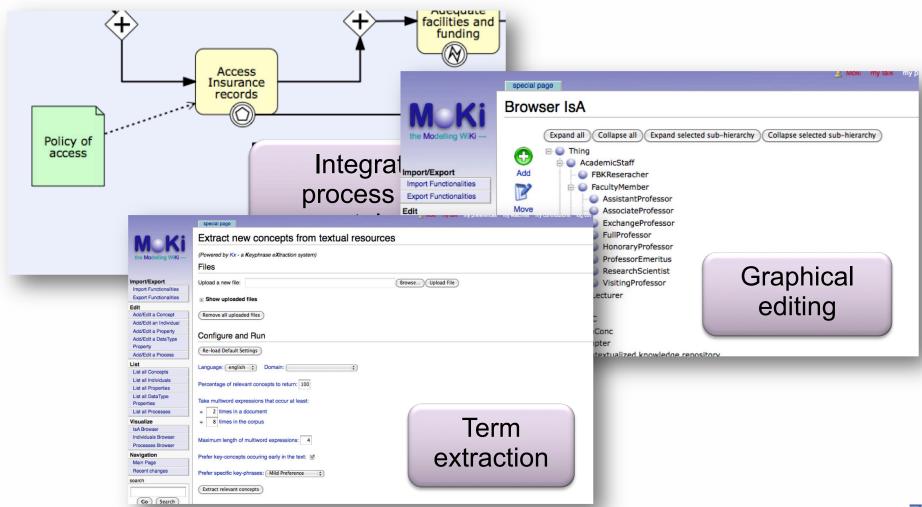


Different views for different roles





Further features





MoKi Details

```
It is an extension of MediaWiki (e.g. Wikipedia) (GPLv2+)
Supports collaborative editing;
Only a web-browser is required on the client side;
Platform independent (needs at least Apache, MySQL, Php)
Basic versioning facilities.
```

Released Open Source on the 29th July 2010; License: **GPL2** (due to reuse of other GPL2 code);

- ~210 downloads from the release;
- ~5 unique access per day (web-site).



Usages of MoKi

Previous Usages:

4 companies + 3 universities (APOSDLE EU project) build integrated model of a domain;

FAO (Organic.Edunet EU project) build/revise ontology of organic agriculture;

Some summer schools and university courses tool for conceptual modeling;

Current Usages:

FBK (eOnco project / eHealth)

"organizational" processes in real medical domain;

FBK (PESCaDO EU project)

build an environmental ontology

Italian company

modeling email marketing domain;

Trentino PA and Informatica Trentina (ProDe project)

model processes for analysis/revision and



The ProDe project

Italian interregional project;

Involves some regions and autonomous provinces;

Dematerialization:

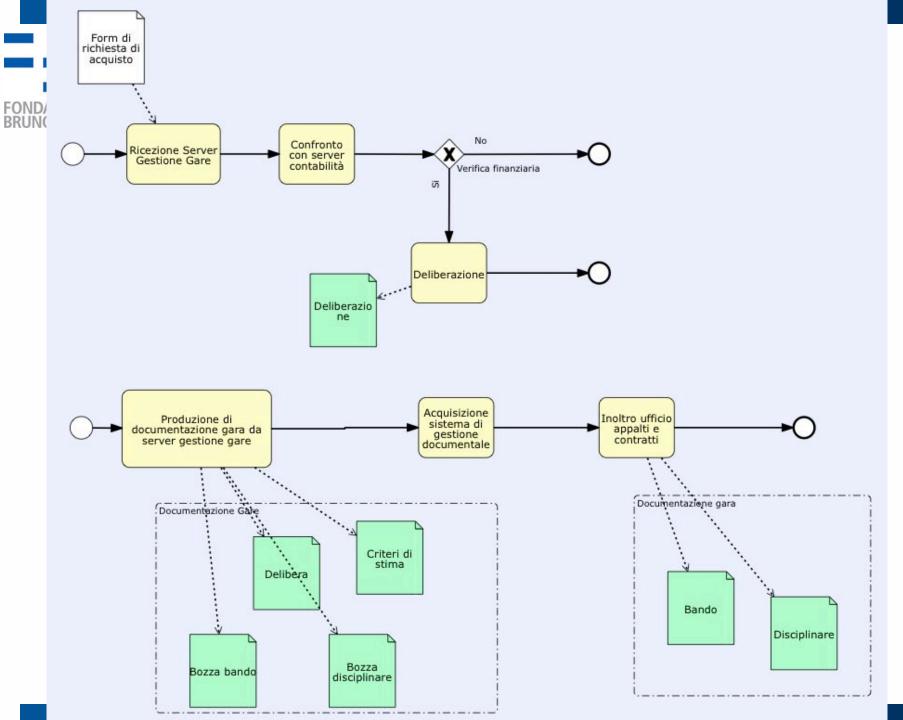
for a public administration agency, to be able to replace paper documents with digital versions

Why dematerializing?

To reduce expensive inefficiencies;

Goal:

Define a reference model for the dematerialization of public administrations;





The usage in the ProDe project

Currently used by 5 (out of 7) Italian regions in ProDe: Puglia, Liguria 1, *Trentino*, Emilia Romagna, Liguria 2.

Decision to use MoKi based on:

Ability to store wiki based and formal content;

Ability to represent integrated processes and ontologies;

Easy to use;

Collaborative features;

On-line repository of knowledge.



(First) Data on usage

Usage has started after an info day on MoKi on February 2nd.

Medium size models produced in around 2 weeks.

	Processes	Documents	Attributes	Document descriptions
Puglia	33	17	7	5
Liguria	38	36	2	35
Trentino	35	24	3	8
Emilia-Romagna	47	55	2	21
Liguria	0	26	0	0



MoKi & Prode: Resources

MoKi WebSite: http://moki.fbk.eu

On-line demos, downloads, documentation, news, support...

ProDe WebSite: http://www.progettoprode.it/

Spotlights:

ComunicazioneFBK's YouTube Channel: http://www.youtube.com/user/ComunicazioneFBK

- MoKi: http://www.youtube.com/watch?v=S0AM6FZysu0
- ProDe: http://www.youtube.com/watch?v=v3xKXlY21-U