FOX

What is FoX?

- FP7: Seventh Framework Program

- ICT: Information and Communication Technologies

- FET: Future and emerging technologies

- Open: "for exploring promising visionary ideas that can contribute to challenges of long term importance for Europe."

Foundation of XML

Safe processing of dynamic data over the internet

Who are we?

Who we really are

What we committed on

From **May 1st 2009** to **April 30 2012**

- A (nice) web page: `http://fox7.eu`

- Two "training" events (the first one will be in Dortmund in October)

- Yearly meetings. 2010, May 10-12 in Amsterdam (stay tuned)...

- Lots of nice research results

- *Yearly reports* ☹

An overview of the research part

Four work packages

- Data modelling and specification

- Querying, extracting and exchanging XML data

- Modeling and verification of temporal behavior

- Handling incomplete information

Data modelling and specification

- Provide a solid model for Web data.

  Data aware, multi-site.

- Provide a reasoning toolbox for this model

- Implement the toolbox: Schema software library

Distributed XML Design. S. Abiteboul, G. Gottlob, M. Manna. PODS'09.

Satisfiability of downward XPath with data equality tests. D. Figueira. PODS'09.

Querying, extracting and exchanging XML data

Shows that our model can be useful.

- Query evaluation (optimization)

- Schema mapping and Data exchange

XPath evaluation in linear time with polynomial combined complexity. P. Parys. PODS'09.

XML schema mappings. S. Amano, L. Libkin and F. Murlak. PODS'09.

Modeling and verification of temporal behavior

Let's make it dynamic and safe!

- Incorporate dynamic behavior in the model

  AXML...

- Verify that the behavior of the system will be/is correct

  static/run time analysis

Satisfiability and relevance for queries over active documents.
S. Abiteboul, P. Bourhis, B. Marinoiu. PODS'09
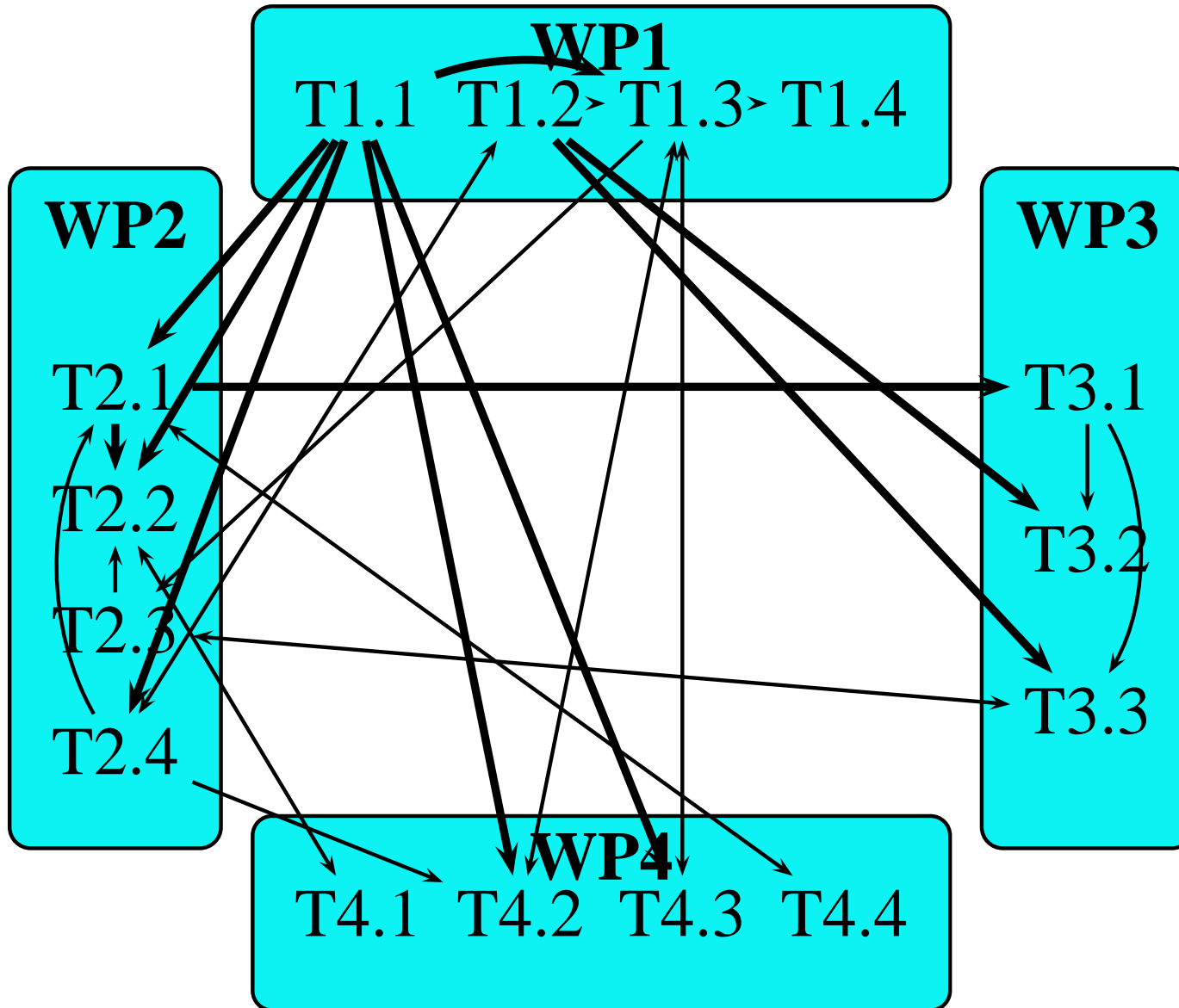
Handling incomplete information

What shall we do if the schema is missing?

1. Learn it!

2. Incomplete information/probabilistic databases.

XML with incomplete information: models, properties, and query answering.
P. Barcelo, L. Libkin, A. Poggi, and C. Sirangelo. PODS'09.

Relative information completeness. W. Fan, F. Geerts. PODS'09.

Interdependencies between tasks and work packages.

Four work packages

Global coordination: Luc ☹

- Data modelling and specification

  Coordinated by Thomas Schwentick

- Querying, extracting and exchanging XML data

  Coordinated by Leonid Libkin

- Modeling and verification of temporal behavior

  Coordinated by Mikołaj Bojańczyk

- Handling incomplete information

  Coordinated by Frank Neven

Questions?