

SWEB
The Swedish Semantic Web
Initiative

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The First Generation Web - An Industrial Revolution

1990 HTML

electronic paper

1998 XML, the uniform document format

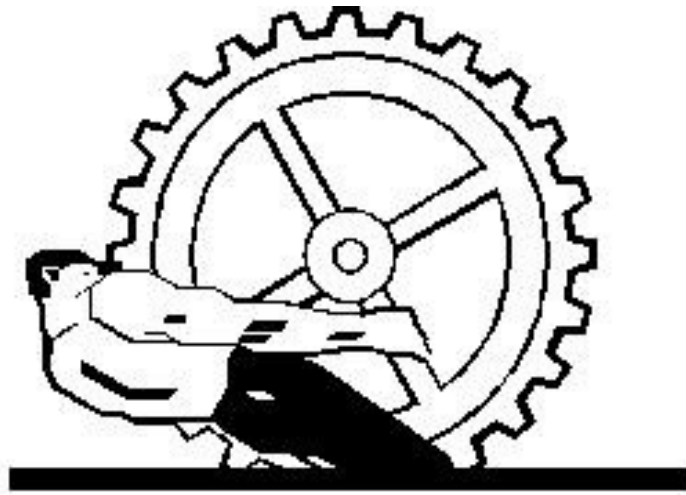
electronic forms

What would you have done if you knew it
in 1990?

The Second Generation Web - The Next Industrial Revolution

2001/02 The Semantic Web (DAML&OIL)
intelligent paper with semantic descriptions
automatic process management
consistency checking
searching
match making

Industrial Sector



Administrative Sector

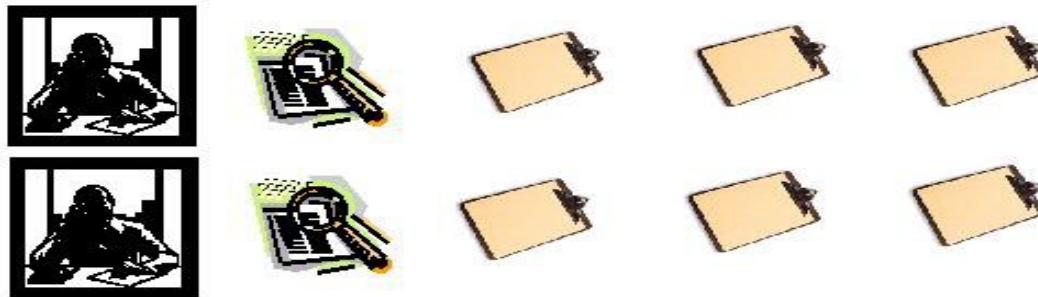


Service Sector



**Process Management
Sector
(PM)**

Tax Declarations of the Future



Submarkets

PM-1 Ontology Languages

PM-2 Ontology Development

PM-3 Ontology Tools

PM-4 Application Markets

- e-commerce

- administrative processes

- production and business workflows

Example Applications

Semantic Email

Semantic Document
Libraries

Semantic Component
Supermarkets

Semantic Refactoring

Semantic Domain Specific
Languages

Semantic WebServices

Semantic WAP

Dynamic Supply Chain
Management

Personalization

Context Aware Services

Semantic Knowledge
Reengineering

Ressources

www.ida.liu.se/sweb The SWEB Initiative
www.daml.org DAML/OIL home page
www.w3c.org/2001/sw W3C Activity
www.semanticweb.org portal
www.ontoweb.org OntoWeb network
www.easycomp.org LIUs project on web
components

What Sweden Should Do

PM-1 Ontology Languages

Immediate Action Necessary

PM-2 Ontology Development

Window closes end of 2004?

PM-3 Ontology Tools

5-10 years competition

PM-4 Application Markets

Mobile communication

Workflow engineering

The Swedish Semantic Web Initiative (SWEB)

Awareness Actions

PhD Course „Semantic Web“, Seminar

Strategic Projects in PM-1,2,3

SWEB initial project (SSF) – Ontology composition,
Semantic Email

Application Projects in PM-4

SWEBButler – Workflows for Semantic Web
Services

Participation in European network **OntoWeb**

LIU is almost alone from Sweden

The End