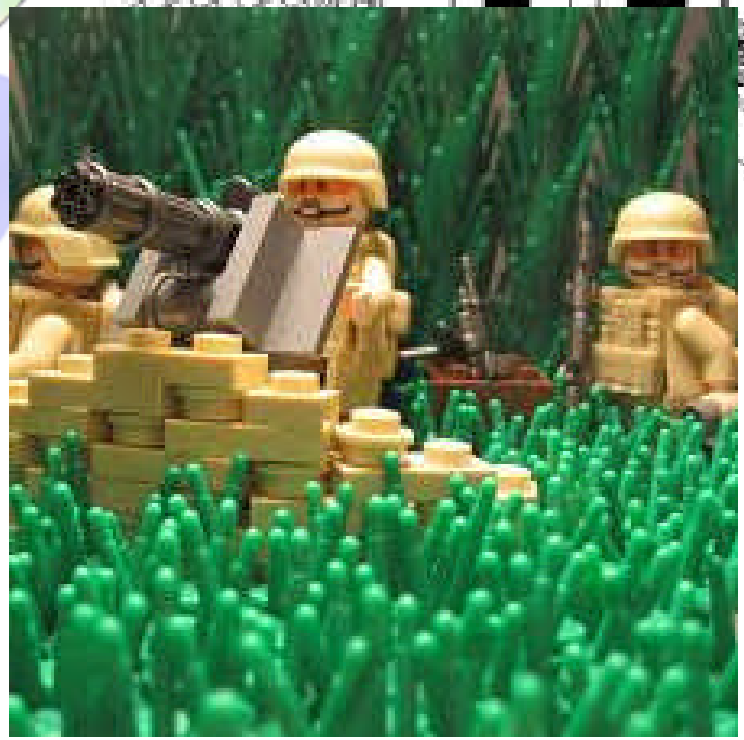
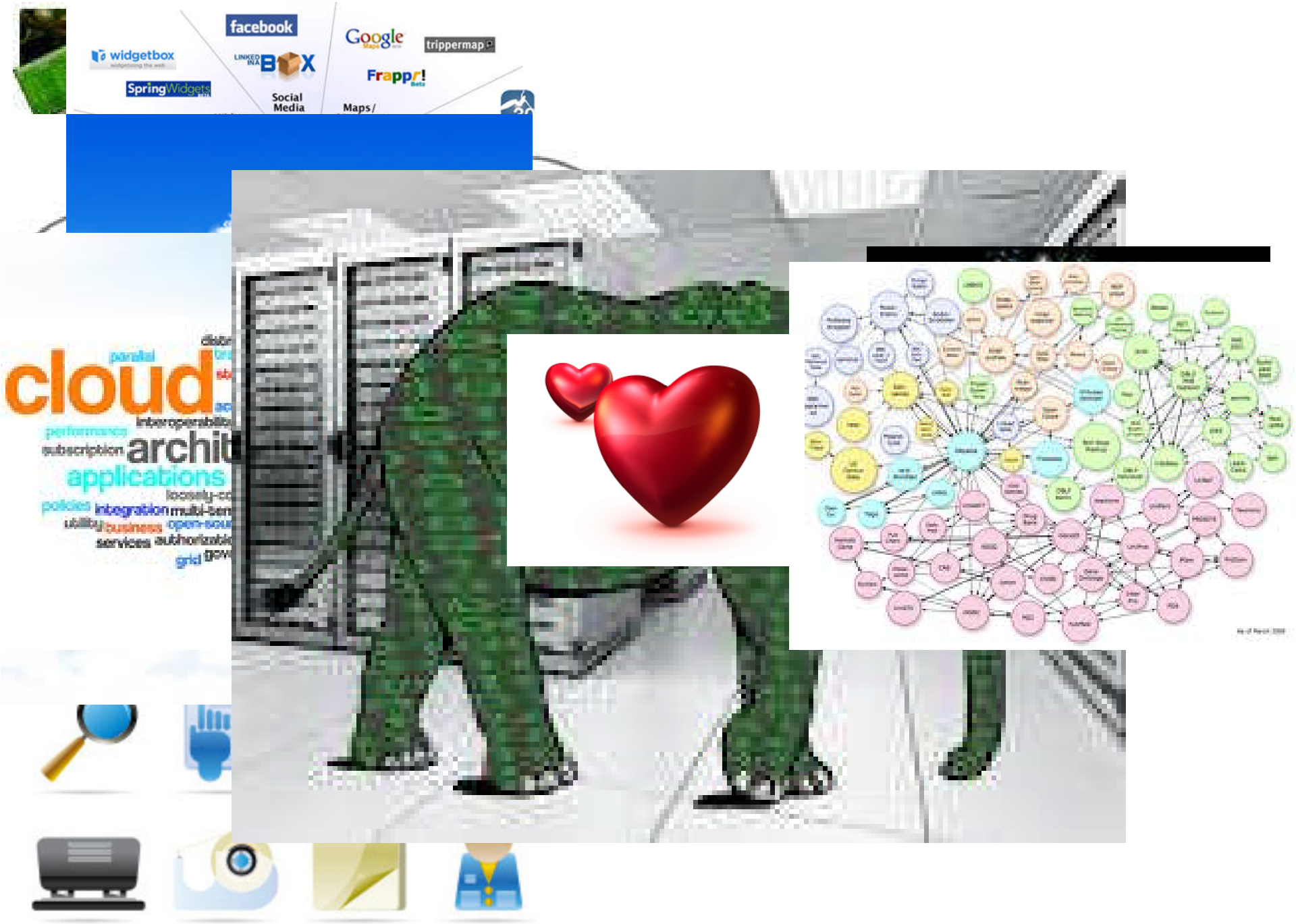
Software Box
FRONT

BORDER SECURITY
Silos
R Us




widgetbox
facebook
LINKED IN
BOX
Google Maps
trippermap
SpringWidgets
Social Media
Maps/
Frappr!
cloud
parallel
performance
subscription
archit
applications
policies
integration
business
services
grid

# What will their children look like?

HOCHSCHULE RUHR WEST
UNIVERSITY OF APPLIED SCIENCES

INSTITUT INFORMATIK

# Mobile Clouds – Is it Possible to Use Mobile Devices as Cloud Service Providers?

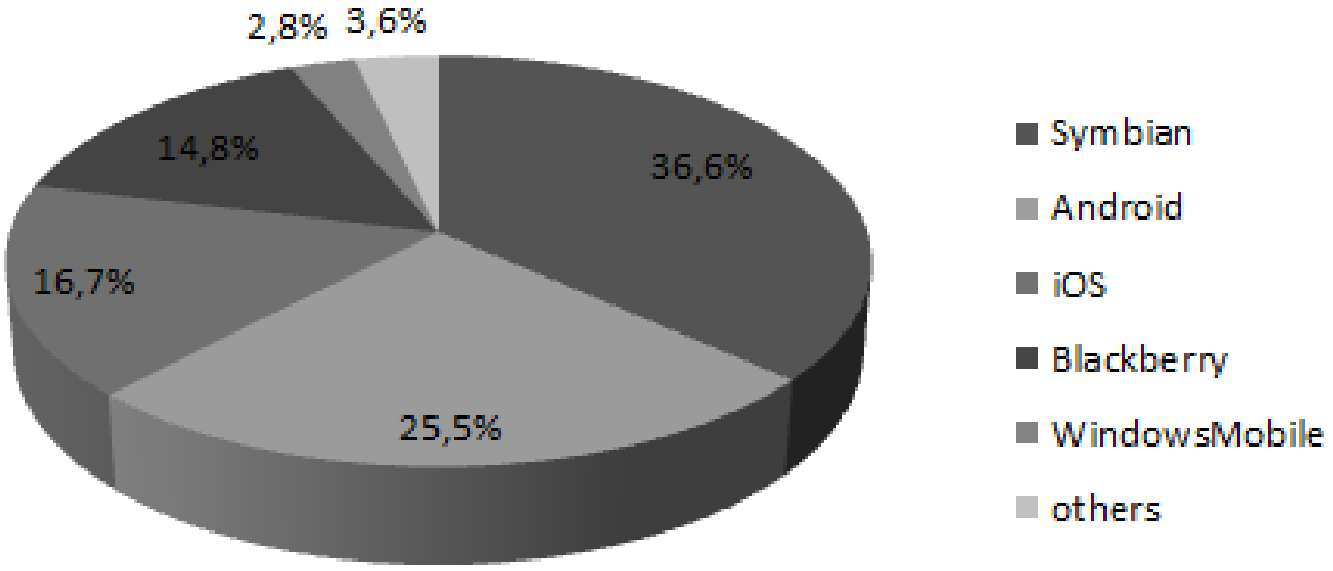
*Marc Jansen*

*University of Applied Sciences Ruhr West*

*Computer Science Institute*

# Problem Description

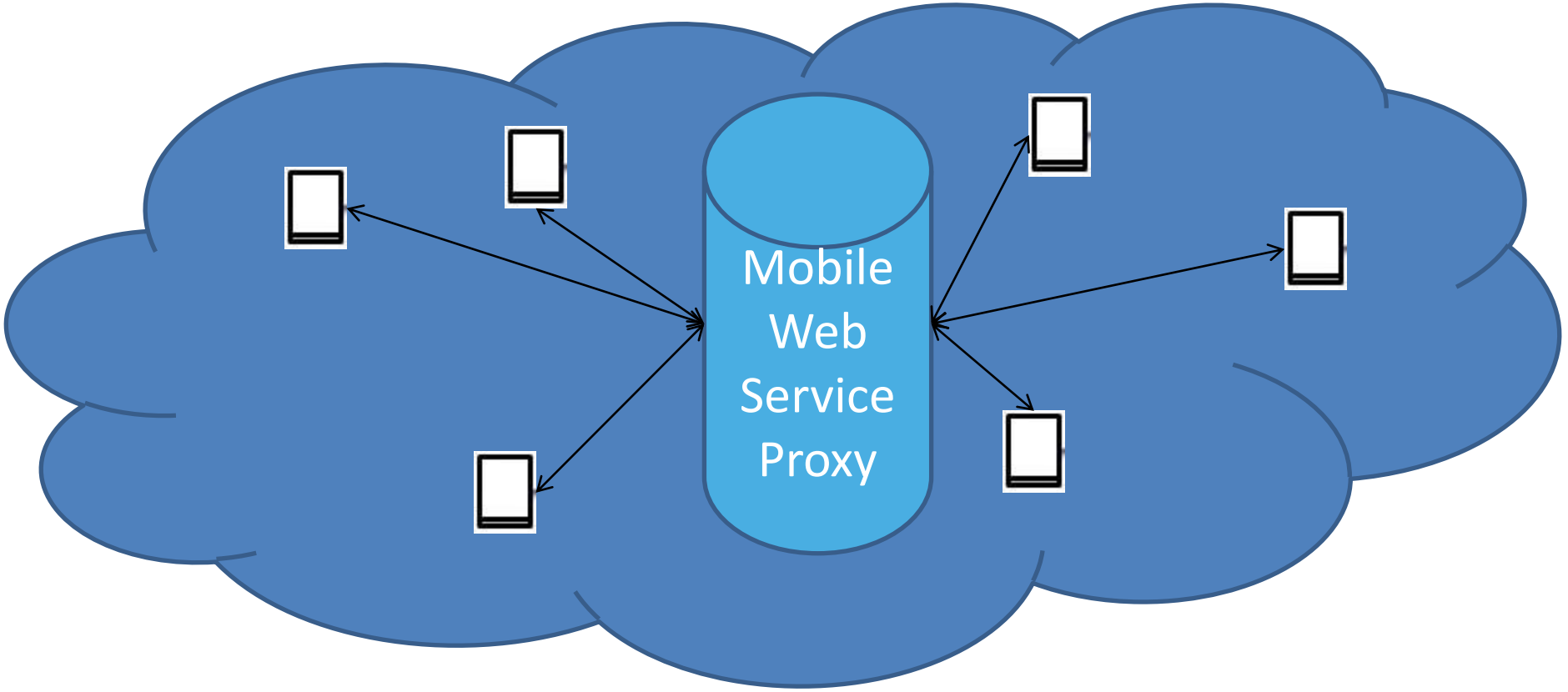
- **The number of reasonably powerful mobile devices is steadily increasing**
- **Strong heterogenity among mobile devices:**
  - Operating system
  - Display size
  - …




Gartner 2010

# Mobile Clouds

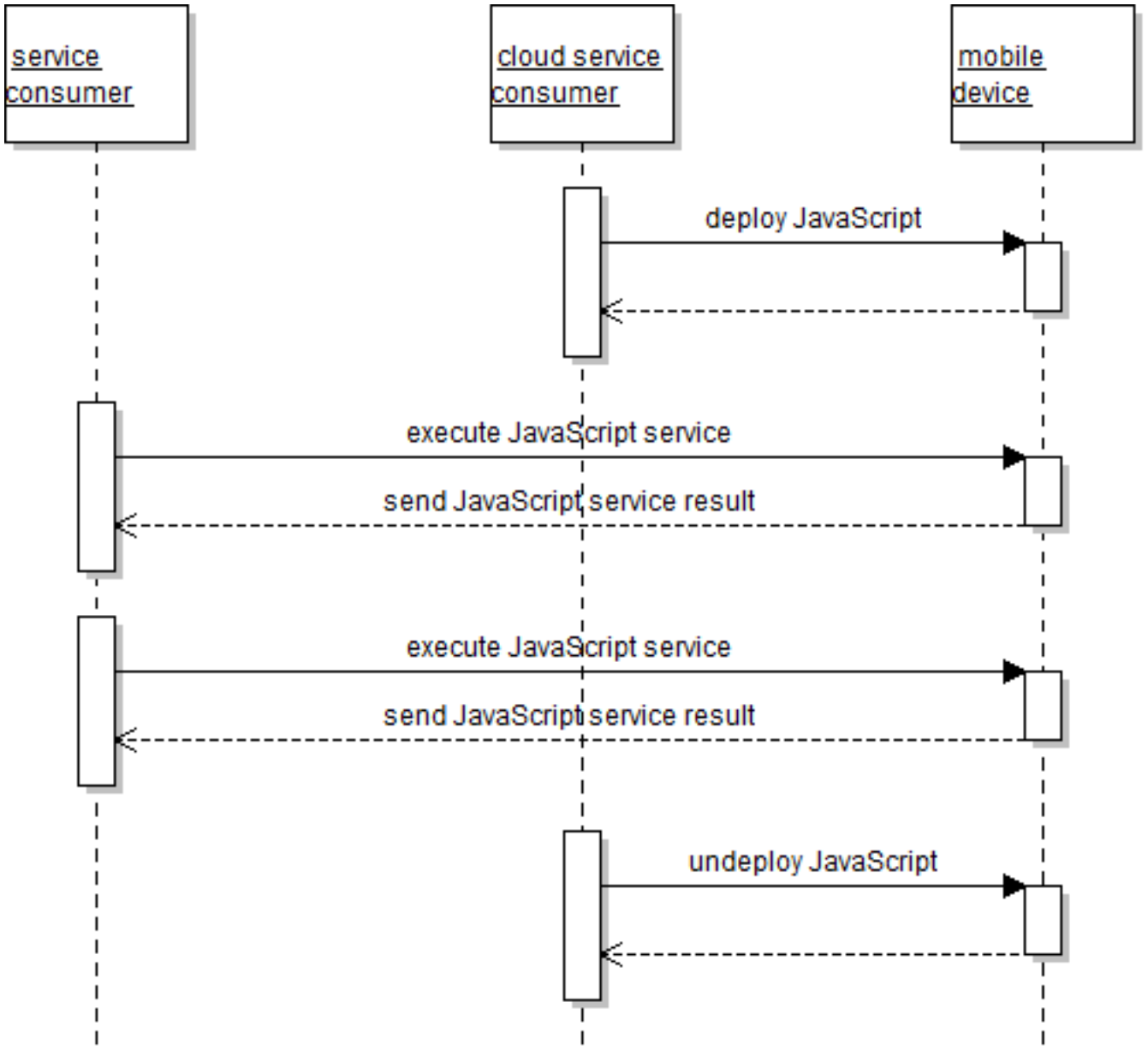
- **On top of a mobile Web Service approach the deployment of mobile clouds can be achieved.**



# Mobile Clouds

- **Cloud Computing taxonomy**
  - IaaS – Infrastructure as a Service
  - ***PaaS – Platform as a Service***
  - SaaS – Software as a Service
- **Provision of an environment that allows to deploy algorithms / solutions in a Cloud Computing scenario that consists of mobile devices.**
- **Implementation of the algorithms in JavaScript**

# Mobile Clouds



# Thanks a lot…

**… for your attention!**

**Please feel free to get in contact with me:**

**marc.jansen@hs-ruhrwest.de**

PhD. Maricela Bravo
Academic Researcher
Systems Department
Autonomous Metropolitan University
Mexico City

mcbc@correo.azc.uam.mx

# Challenges Web-Self Services

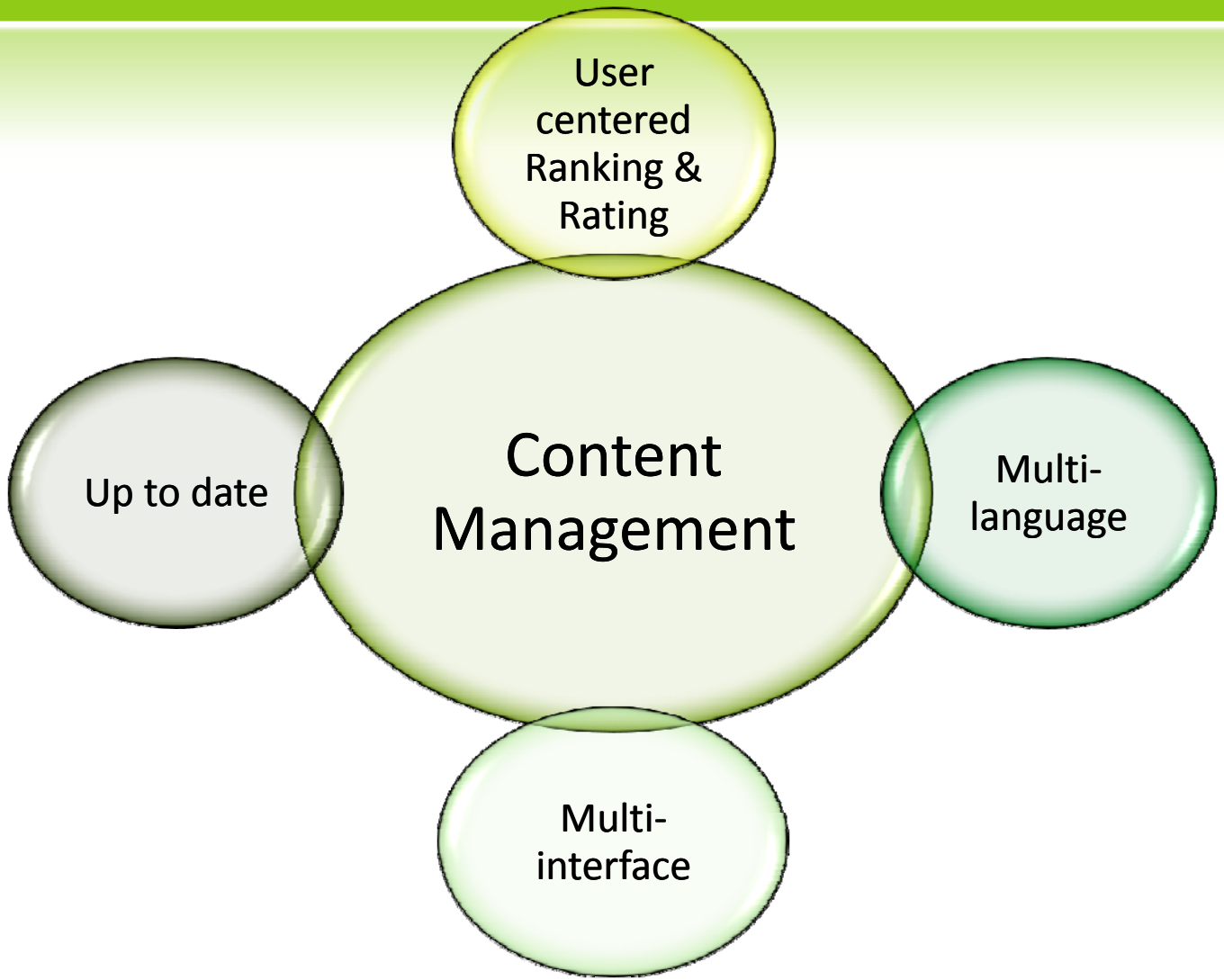
2

# CHALLENGES OF WEB-SELF SERVICES

- **OBJECTIVES:**
  - Getting the customer to service themselves rather than involving into costly manual processes.
  - Provide electronic support to access information and perform routine tasks over the Internet.
- **CHALLENGES:**
  - Content Management
  - Context Management.
  - Knowledge Management.

3

# DEALING WITH CONTENT MANAGEMENT



# Dealing with dynamic context-aware content delivery

- Another important challenge is the proper integration of emerging technologies:
  - semantic Web,
  - social Web,
  - mobile Web
  - advances in intelligent algorithms and
  - methods for the automated delivery of **content** according with dynamic **contexts** and user needs.

# CONTEXT MANAGEMENT

# ORGANIZATIONAL KNOWLEDGE MANAGEMENT

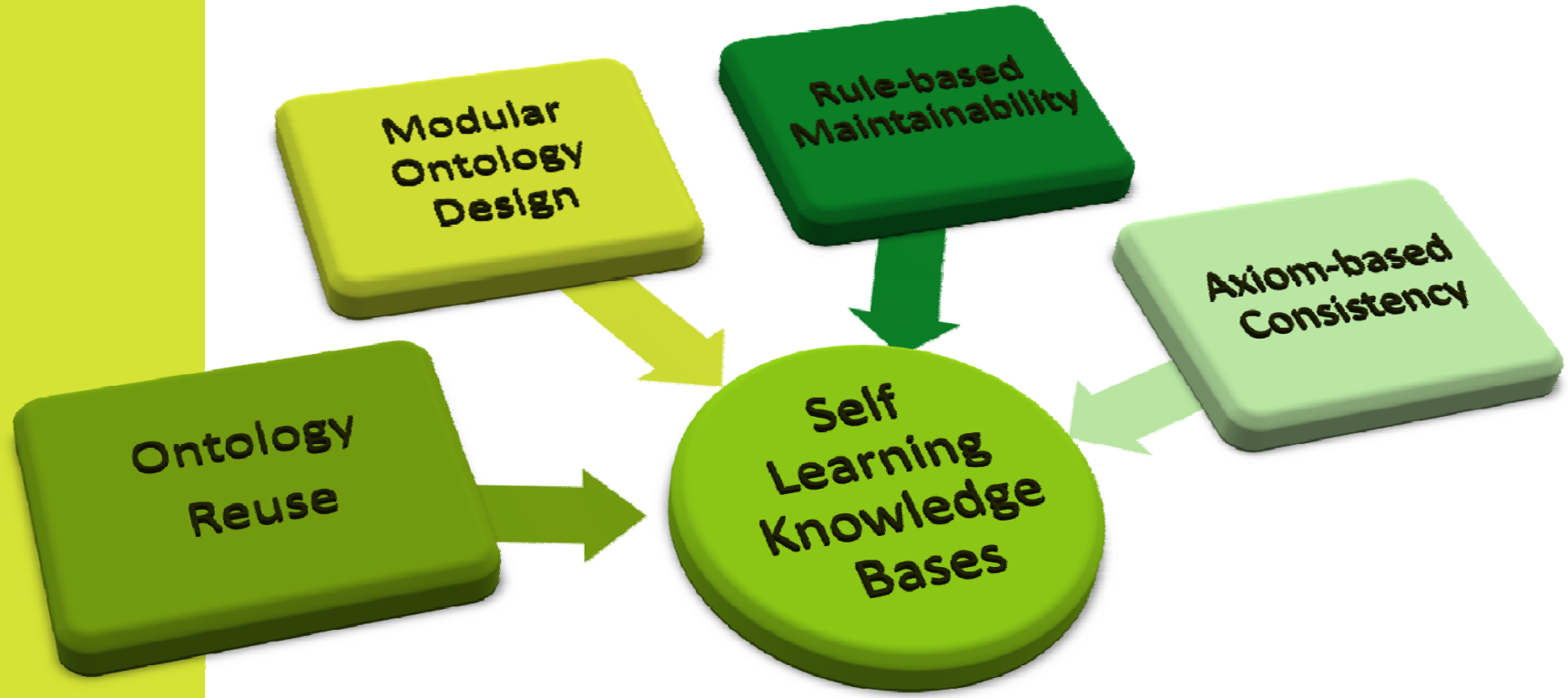
**Generation**

- Experience
- Learning

**Integration**

- Knowledge bases
- Data bases
- Ontologies

**Sharing & reuse**

- Publication
- Dissemination

# Ontology-based Knowledge Management