



# EFTWeb: TOWARDS A SERVICE CENTRE FOR EDUCATION, LEARNING AND TRAINING

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2000-10-19

BOLTON, International Conference

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## Abstract

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- EFTWeb motivation
- EFTWeb model
- E-learning community discussion

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## Motivation

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- find better ways to facilitate education, learning and training support, with existent widespread technologies;
- allowing to transform information and knowledge into skill;
- innovate in the learning process, the user learns by doing;
- allowing system application to multiple knowledge areas;
- allowing content access, communication and broadcasting in multimedia format;
- lack of integrated solutions to reuse contents



## Motivation

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- fostering the development of skill networks
  - strongly related with communities
  - skill networks just occur when organised communities are in place
  - a skill network gathers people knowledge, experience and rely on trust, emotion, opportunity and proximity

## The system supports the offer

### **OFFER**

distribution - Web  
content - database  
structure - thesaurus

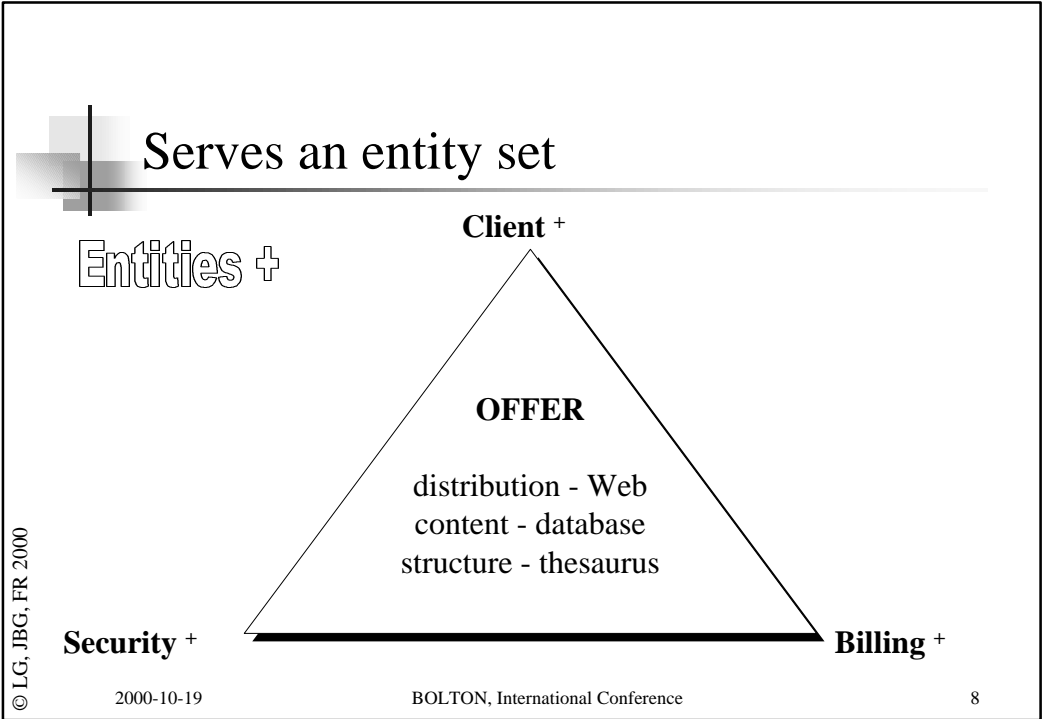
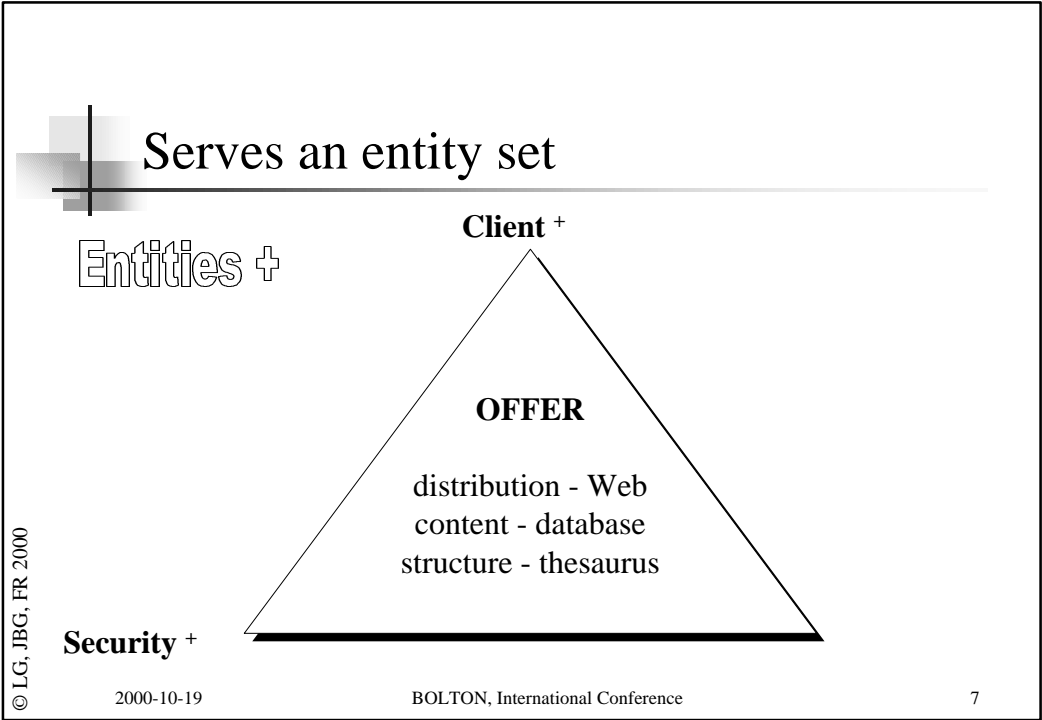
## Serves an entity set

Entities +

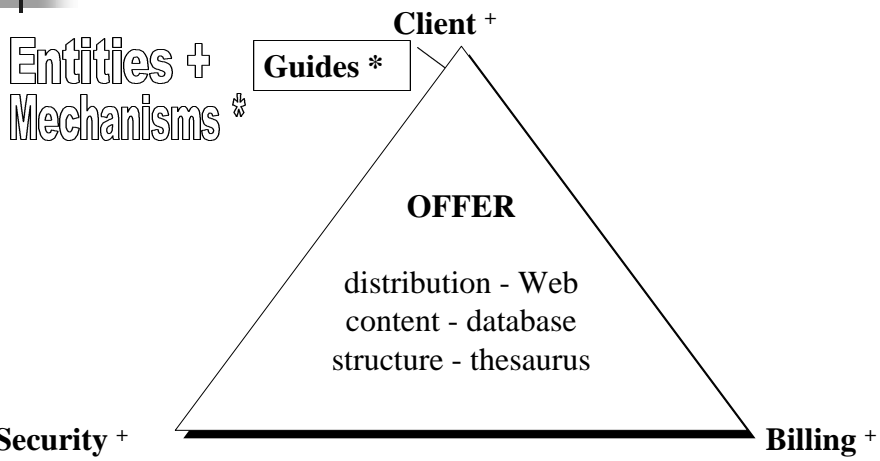
Client +

### **OFFER**

distribution - Web  
content - database  
structure - thesaurus



## Relate mechanisms with the entities



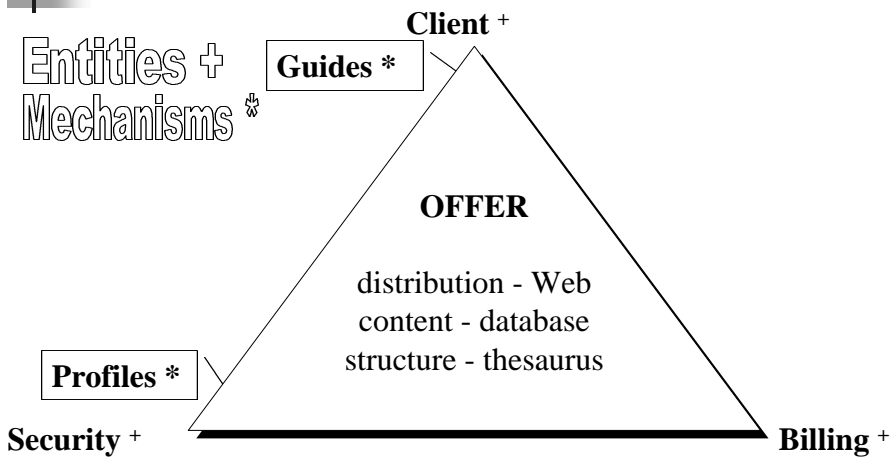
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## Relate mechanisms with the entities



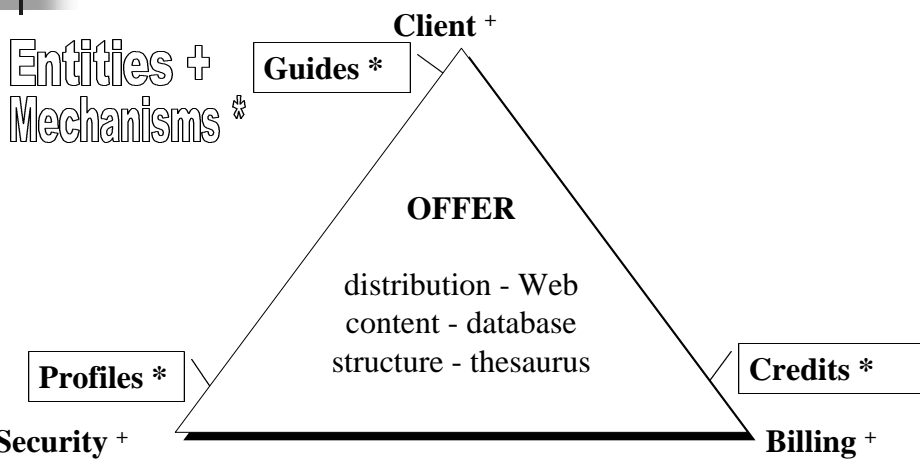
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## Relate mechanisms with the entities



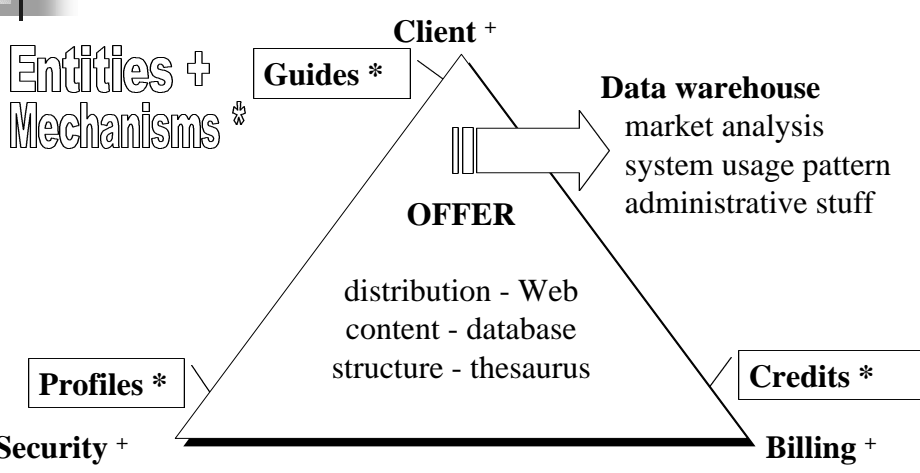
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## EFTWeb use added value



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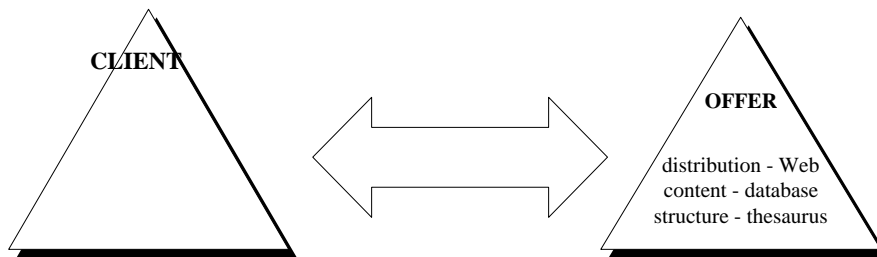
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## Service offering strategy

- EDUCATION** => from offer to client
- TRAINING** => from client to the offer
- INSTRUCTION** => from adapted offer to client



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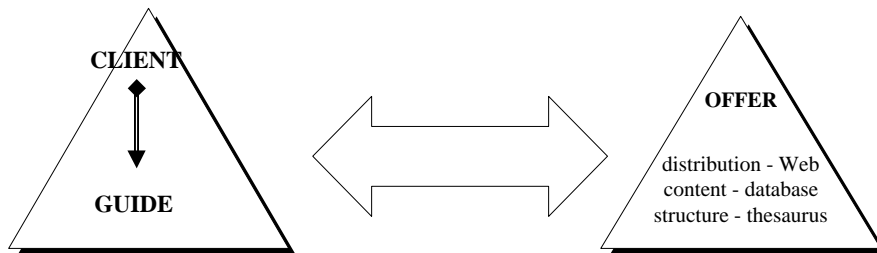
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## Service offering strategy

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## EFTWeb user types

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- normal user
  - can be a teacher or a student
- administrative users,
  - responsible for the operation and definition of the system offer with two types
  - type I: deal with system operation
  - type II: thesaurus administrative users, responsible for maintaining multiple catalogues and thesaurus



## EFTWeb administrative services

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- *certifying and authoring*
  - certifying contents and authoring scripts;
- *version control*
  - promoting and maintain related content collections;
- *catalogue creation*
  - thesaurus additional information with lists of available thesaurus keywords with weighting factors





## EFTWeb system services

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- *mail*: email address to send/receive messages;
- *dialog*: allow client chat in real time. The service is organised in rooms that groups users by topic;
- *personal area*: works as a system portal, proposing a link collection;
- *personal folder*: where the client place his/her documents with the option to share them;
- *search engine*: textual search and thesaurus (by directory);
- *guides*: defines the content sequence - "knowledge road" - to be used



## Four independent activities

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- *lecturing*
  - content transmission and facilitation;
- *certifying*
  - validating contents and education contexts;
- *evaluating*
  - validate and assess client (teachers and students) knowledge;
- *production*
  - content creation, methodology elaboration and technology selection.



## E-learning community discussion

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- four activities decomposition could introduce more flexibility delivering education, learning and training
- institutions may specialise themselves in one or more of these activities
  - new business rules may apply when the requirements for education, learning and training become more community centred



## E-learning community discussion

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- community centred education, learning and training may deal better with:
  - lifelong learning,
  - continuous learning
  - more oriented to "*real world*" contexts
  - allows multiple time and place delivery of skills and practices instead of closed curricula formal specification for the average student



## E-learning community discussion

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- huge impact in the institution however, for the professional most of its activity remains the same
  - main difference is getting more specialised not into a given topic but in the process itself of being specialised in one of the following activities of being lecturer, "*certifier*", evaluator and producer



## E-learning community discussion

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- shift from a *time*-based to an *information*-based system can be done using ICT and systems like *EFTWeb*
- established communities tend to be influenced by flexibility on how to deal with time and place restrictions resulting from ICT adoption



## Conclusion

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- EFTWeb proposes a model for the integration of information that can be gathered from different institutions or groups of people
- institutions will operate in groups that interacts for producing information needed for the lecturing, certifying, evaluating and production activities providing a skill network



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