

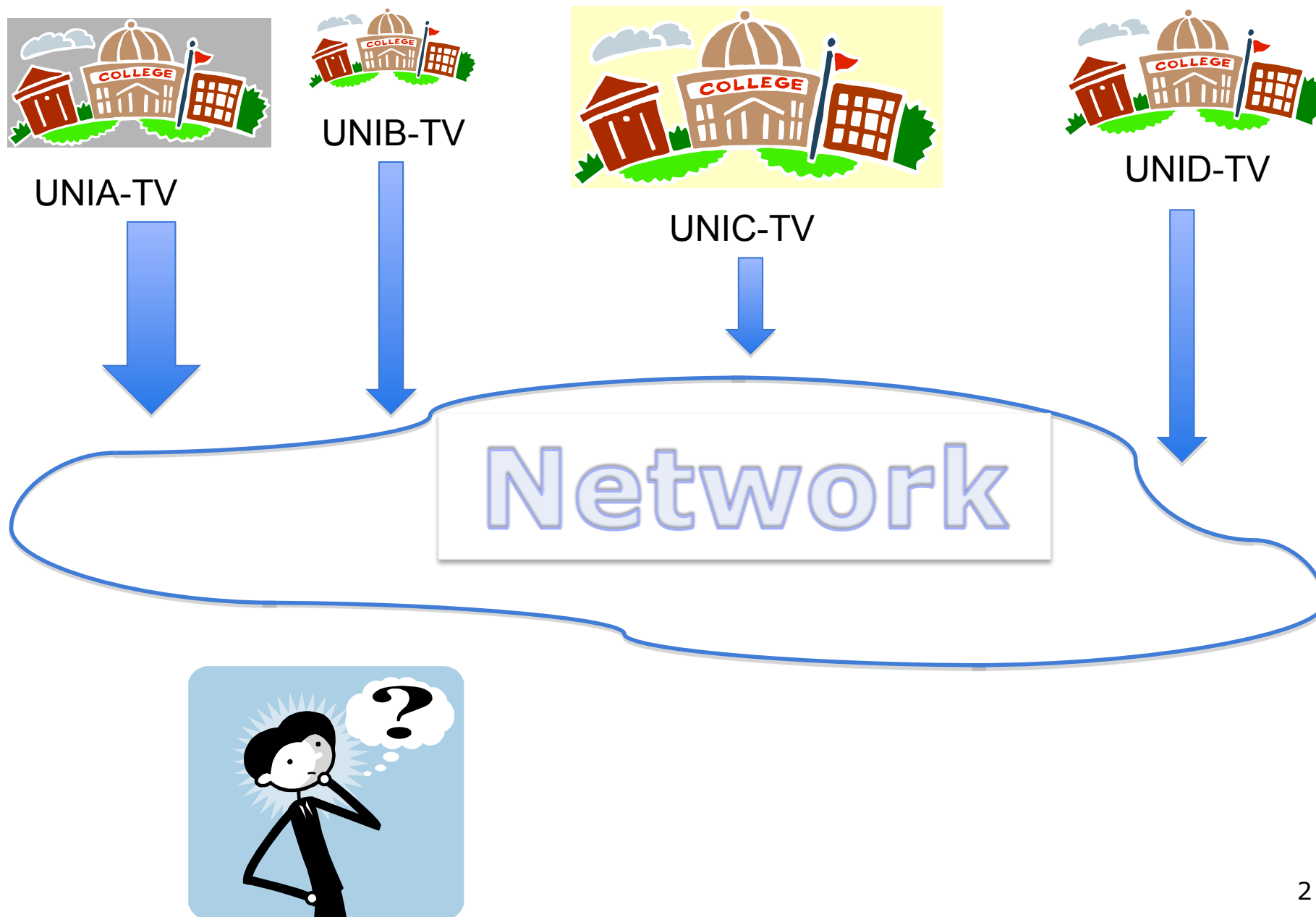
ARCA

Accessing federated multimedia content

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Zurich, 30 January 2009

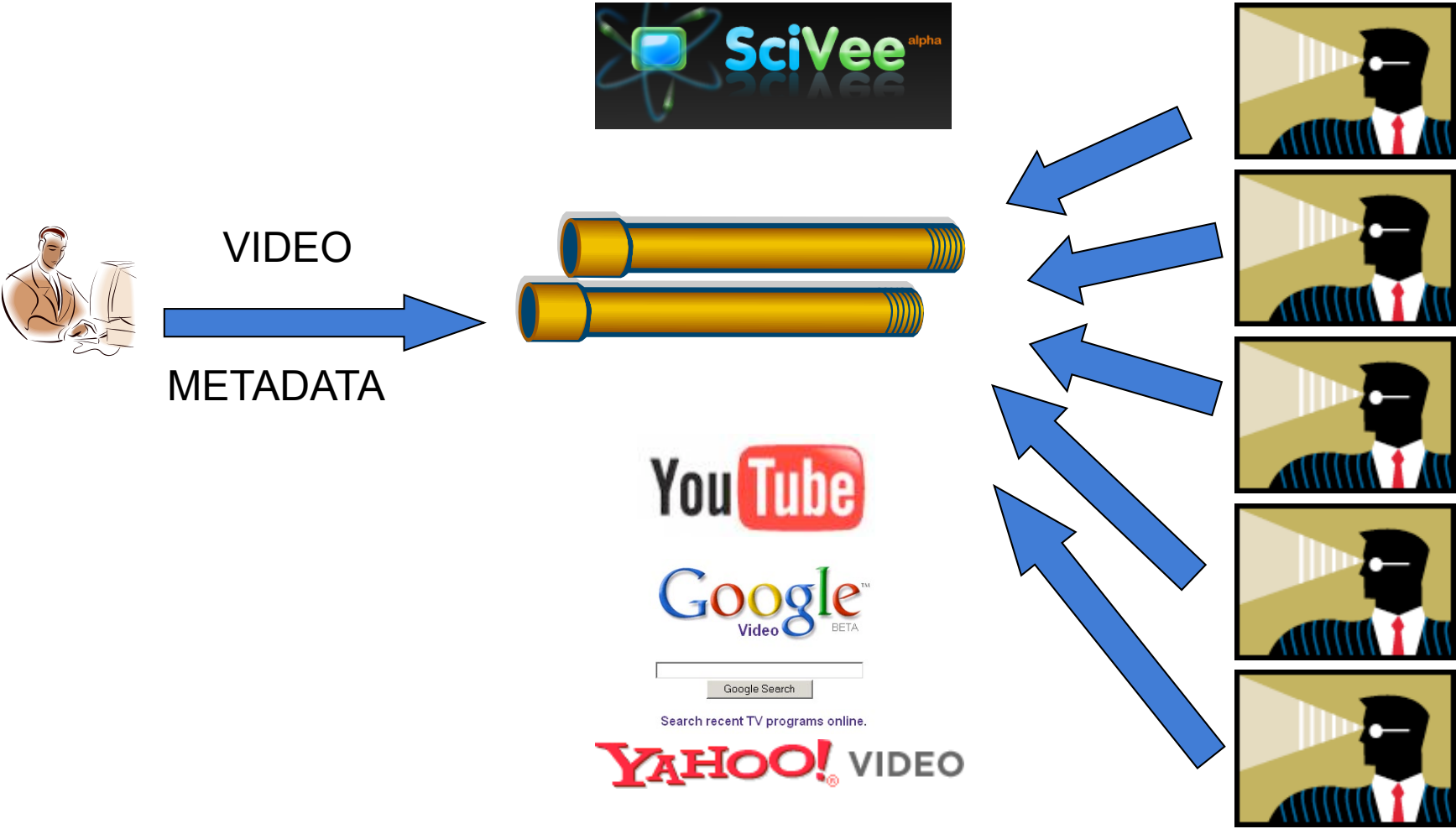
Starting point



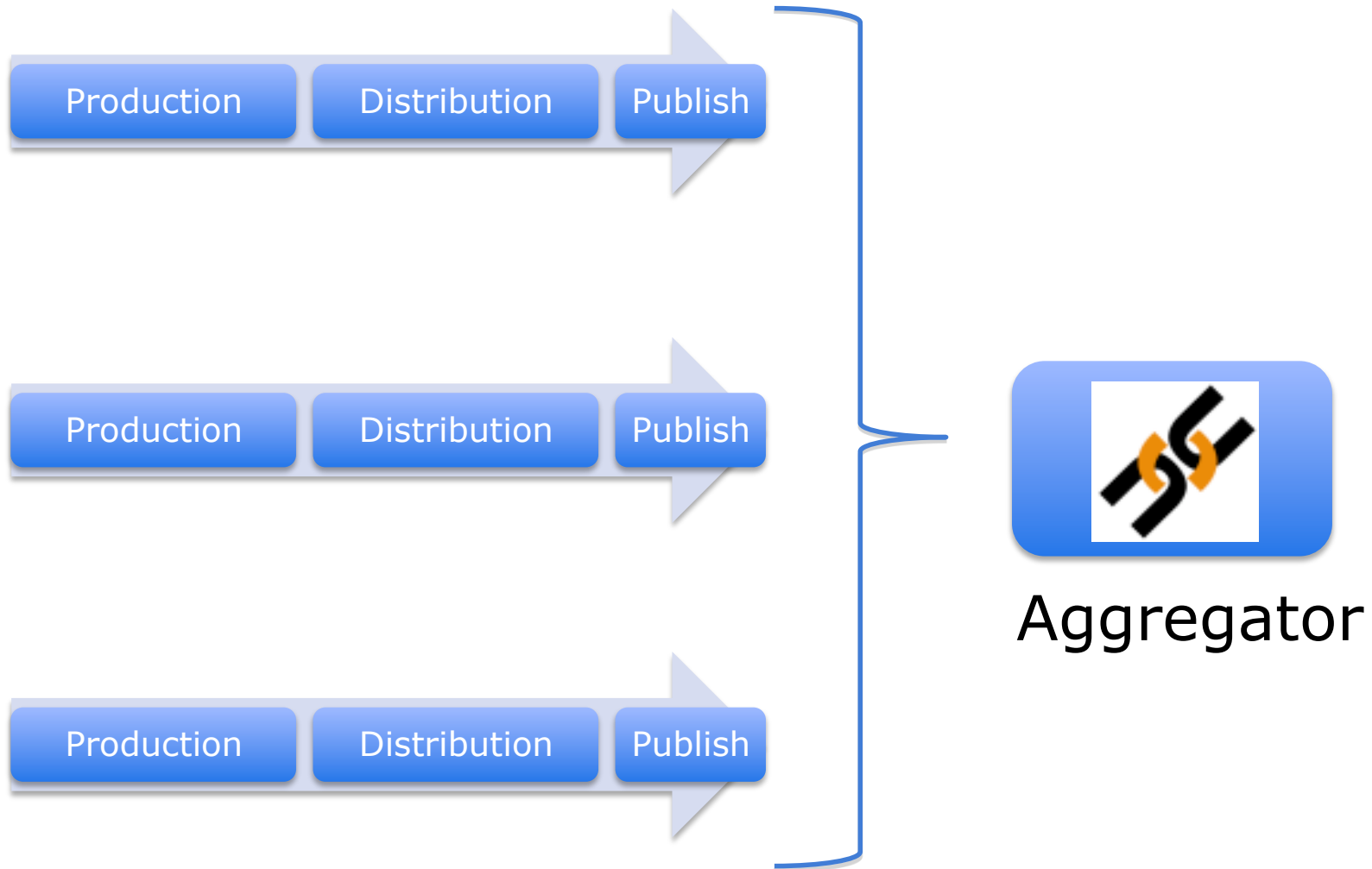
- Against several institutions
- Types of content: live video streaming, VoD and podcast
- Via WWW
- Updated data (changes in scheduler or VoD)
- Flexibility to allow each university to change the scheduler and contents without the obligation of warning administrators of the service

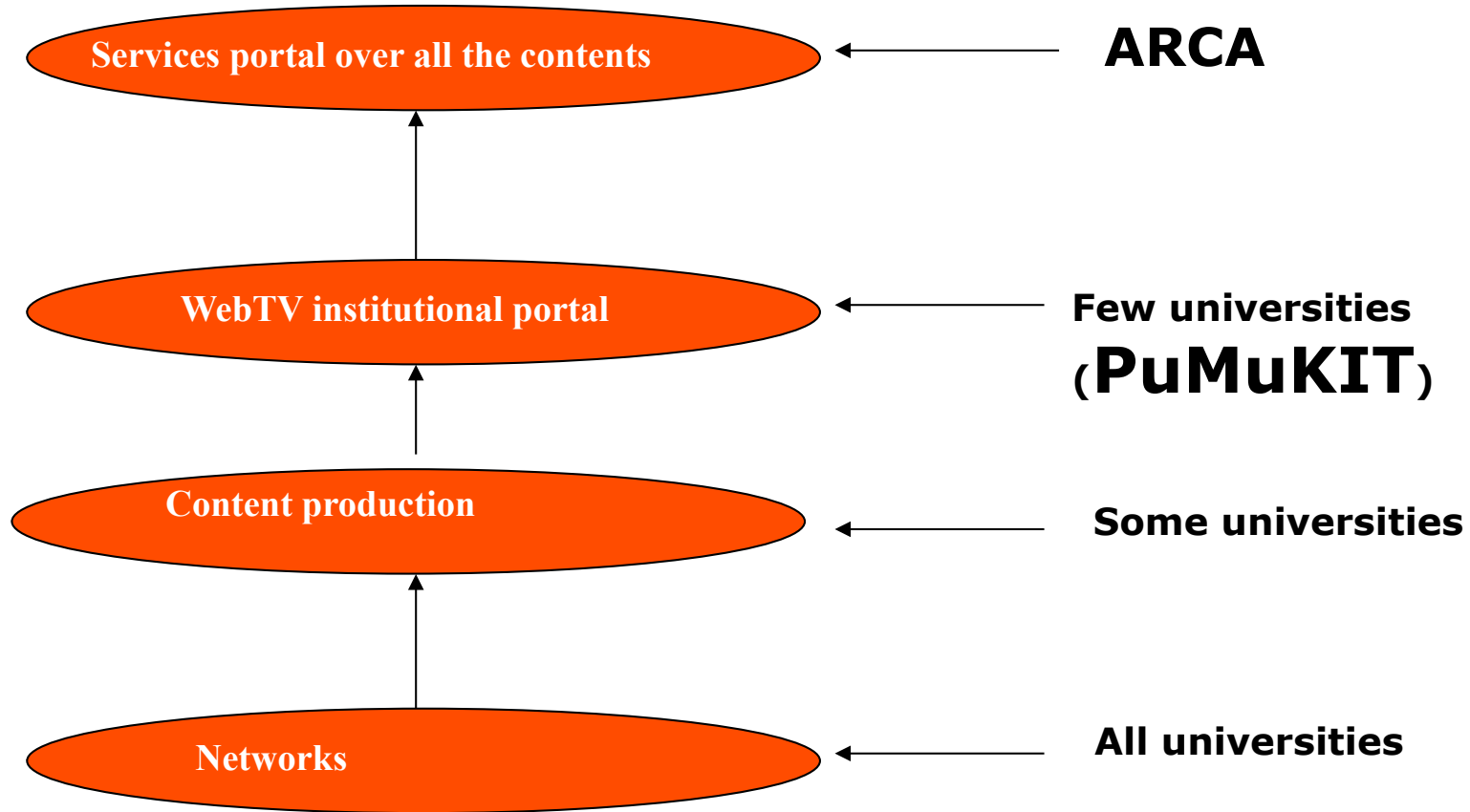
- The organization responsible of the content has to be the owner. He has to have the possibility to choose what is published or not.
- A minimal effort of management and maintenance
- Compatible with the publication by other ways
- Manage several formats
- Catalogation using:
 - UNESCO codes for science and technology
 - Categories used by Spanish Ministry of Education

Centralized model



- Pros:
 - Uniformity in formats and codecs
 - Ensure the media
 - Ensure the availability of service
- Cons:
 - Host the media
 - Recode the media to our servers
 - Deal with end users
 - Responsibility over the content





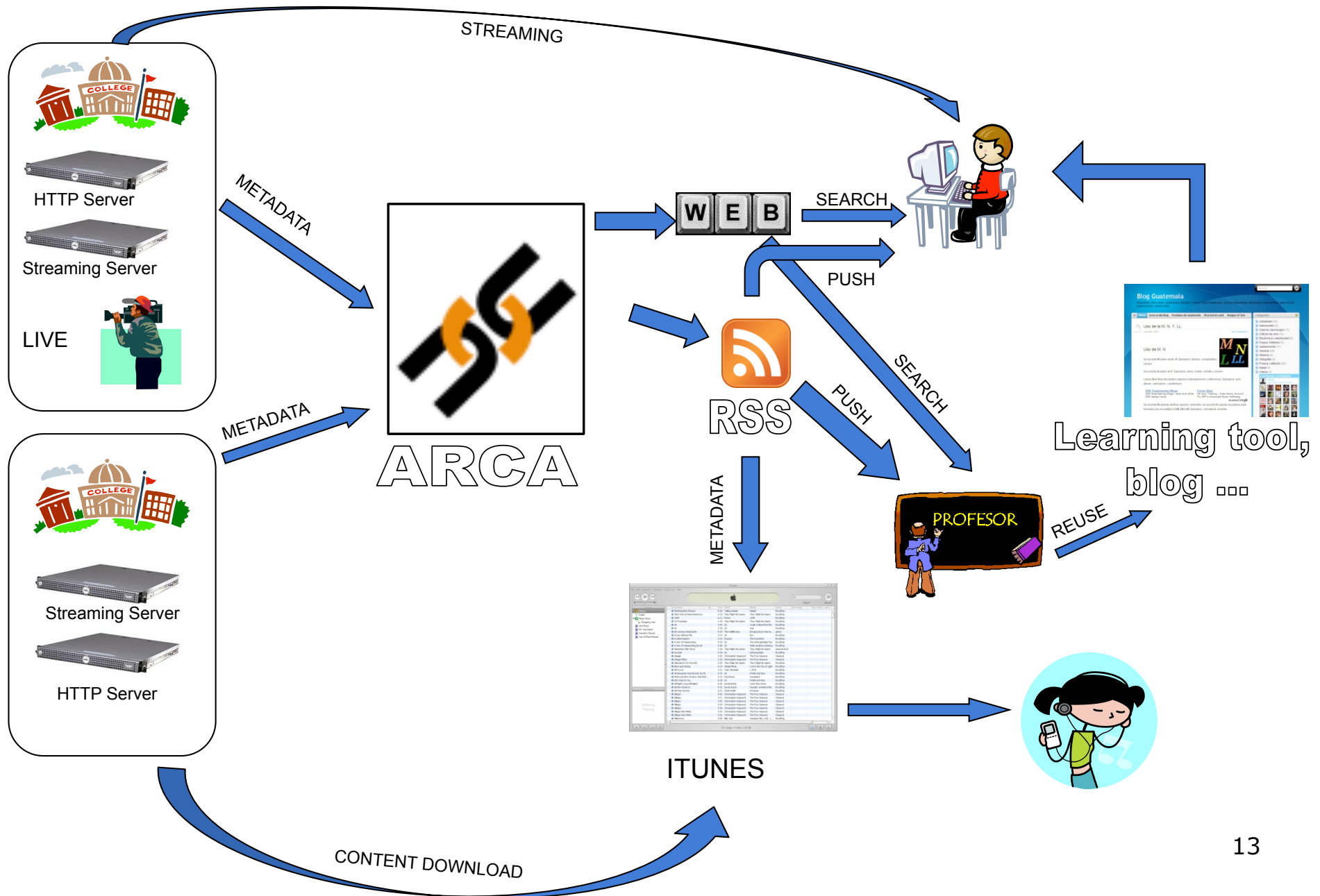
OUR PROPOSAL: ARCA

- Developed by University Carlos III of Madrid
- Service provided by RedIRIS
- GPL code
- Open to all institutions
- In this stage all content is public
- Independence of institutional repository and the federated one.
- The model is suitable to the organization's way of working
- Harvest metadata using secure links: SSL
 - Common language for data exchange: RSS 2.0 (with namespaces used in commercial services)

- RSS 2.0
 - Widely used
 - Known by universities service administrators
 - Powerful enough for our purpose
 - Easy validation
 - Easy to extend
- Namespaces:
 - Yahoo media: MRSS: describe multimedia content (media:group, media:credit, media:thumbnail ...)
 - Itunes: podcast
 - Google base events rss: localize events in time and space (g:event_date_range, g:location)

- Formats supported:
 - Windows media
 - Real
 - Mp4
 - Quicktime
 - Mp3
 - Flash
- Languages supported (spanish, catalan, galician, basque and english)
- OPML
- GeoRSS

ARCA service model



- Members
 - 12 Universities
 - 2 docent departments
 - 1 cultural institution
 - 2 networks
- 11000 elements
- 7600 hours
- International cooperation

- Latest version defines ARCA own namespace
 - Series
 - Attach documents
- Roadmap 2009
 - Federated authentication
 - Social features (comments, content rating)
 - Statistics
 - Intelligent channels, automatic recommenders
 - Communication with social networks
 - Automatic ARCA's interconnections

<http://arca.rediris.es>



Questions?



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