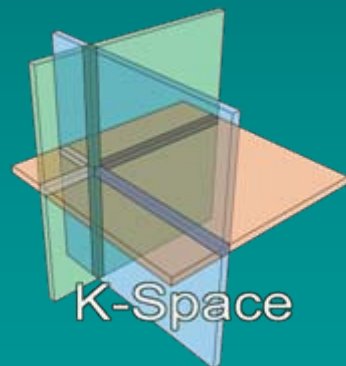


# K-Space at TRECVID 2006



K-Space is a European Network of Excellence (NoE) in semantic inference for semi-automatic annotation and retrieval of multimedia content.

K-Space is focused on the research and convergence of three themes: content-based multimedia analysis, knowledge extraction and semantic multimedia

# What is TRECVID?

- TRECVID is an annual event that aims to promote progress in content-based retrieval from digital video via open, metrics-based evaluation.
- Facilitates evaluation of video information retrieval systems by providing test data and relevance judgements
- Evaluated against several hundred hours of broadcast news video in multiple languages
- 4 main tasks
  - Shot boundary determination
  - Story segmentation
  - High-level feature extraction
  - Search

# K-Space Participation in TRECVID

- Of the 14 partner institutes, 8 participated in the K-Space TRECVID 2006 Submission
- Tasks
  - High-level feature extraction task
    - *39 LSCOM Concepts (Building, Face, Indoor/Outdoor)*
  - Fully Automatic Search Task
    - *Search input is the topics alone*
  - Manually Assisted Search Task
    - *Expert user formulates the query from the search topics*
    - *No Relevance Feedback*

# The K-Space TRECVID Query Tool

- Front-end developed to allow an expert user to quickly and effectively create a query from a search topic.
- Search Input:
  - Free text
  - Named entities
    - *(Person, Organization etc.)*
  - High level features
    - *39 LSCOM Features*
  - Image/Video frame
    - *Individual features can be chosen*
    - *Images can be grouped semantically*
- Features
  - Integrated video frame grabber, supports all popular formats.
  - Configurable shortcuts to image search engines
    - *Google Images, etc. Expert user can expand the query with more relevant images.*
  - Interface is fully expandable, and configurable without recompilation

# Thank You!