

The slide features the AXMEDIS logo at the top left, followed by the text "Automating Production of Cross Media Content for Multi-channel Distribution" and the website "www.axmedis.org". To the right are icons for Innovation Radar, the European Union, and a train. The title "General Overview" is centered in large, bold, black font. Below it, the author's name "Paolo Nesi" is in bold, italicized black font. The text "DISIT-DSI, Distributed Systems and Internet Technology Lab" and "Department of Systems and Informatics, University of Florence" is in a smaller, regular black font. Below that are two email addresses: "nesi@dsi.unifi.it" and "paolo.nesi@unifi.it", and two URLs: "http://www.dsi.unifi.it/~nesi" and "http://www.disit.dsi.unifi.it". At the bottom, there is a URL "http://www.axmedis.org/", the version "version 1.0", and the date "October 2007, Roma, Italy". The footer contains the URL "www.AXMEDIS.org, Oct 2007" and the number "1".

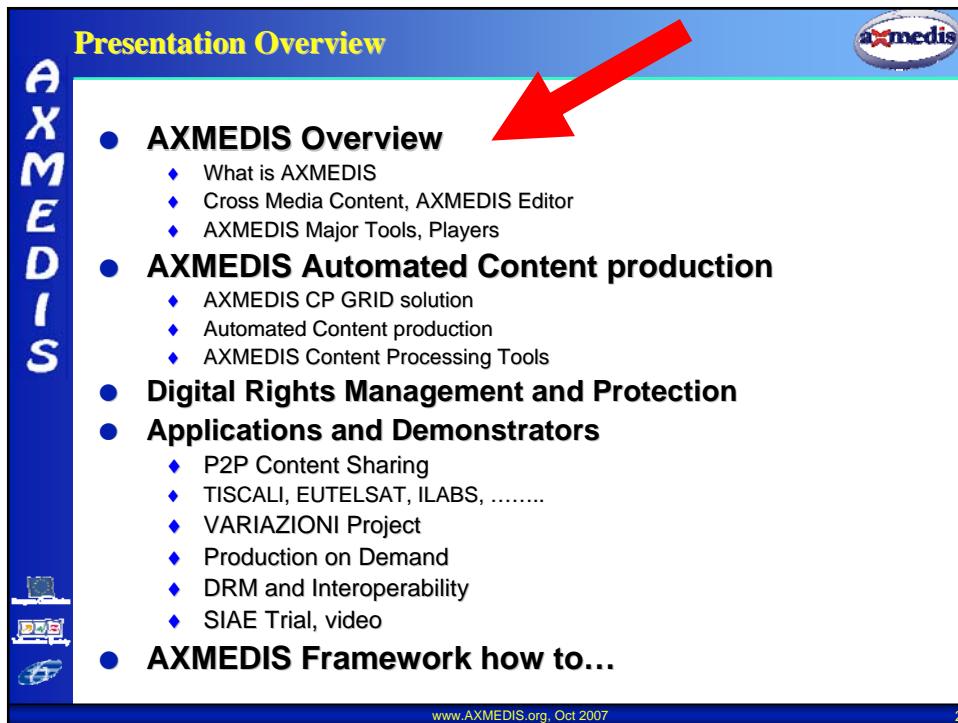
General Overview

Paolo Nesi

DISIT-DSI, Distributed Systems and Internet Technology Lab
Department of Systems and Informatics, University of Florence
nesi@dsi.unifi.it, paolo.nesi@unifi.it
<http://www.dsi.unifi.it/~nesi>, <http://www.disit.dsi.unifi.it>

<http://www.axmedis.org/>
version 1.0
October 2007, Roma, Italy

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The slide has a blue header bar with the text "Presentation Overview" and the AXMEDIS logo. A red arrow points from the top right towards the first bullet point. The main content area contains a vertical sidebar with the AXMEDIS logo and three small icons: a computer monitor, a document with a play button, and a train. The main content is organized into several bullet points under sections like "AXMEDIS Overview", "AXMEDIS Automated Content production", "Digital Rights Management and Protection", "Applications and Demonstrators", and "AXMEDIS Framework how to...". Each section includes a list of sub-points. The footer contains the URL "www.AXMEDIS.org, Oct 2007" and the number "2".

Presentation Overview

A X M E D I S

- **AXMEDIS Overview**
 - ◆ What is AXMEDIS
 - ◆ Cross Media Content, AXMEDIS Editor
 - ◆ AXMEDIS Major Tools, Players
- **AXMEDIS Automated Content production**
 - ◆ AXMEDIS CP GRID solution
 - ◆ Automated Content production
 - ◆ AXMEDIS Content Processing Tools
- **Digital Rights Management and Protection**
- **Applications and Demonstrators**
 - ◆ P2P Content Sharing
 - ◆ TISCALI, EUTELSAT, ILABS,
 - ◆ VARIAZIONI Project
 - ◆ Production on Demand
 - ◆ DRM and Interoperability
 - ◆ SIAE Trial, video
- **AXMEDIS Framework how to...**

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What is AXMEDIS ?



AXMEDIS



- **AXMEDIS is a consortium/project of the European Commission proposed by companies and institutions to solve a set of problems in the area of e-commerce of digital content**
 - ◆ approved by the EC for reaching specific objectives, among them the creation of an Open Platform for the digital content production, protection and distribution.
 - ◆ partially funded by the EC and partially from the Companies and Institutions involved
- **AXMEDIS is open to ALL via the Affiliation**
 - ◆ It is possible to join AXMEDIS, allowing you to access at the knowledge and tools/source code produced for your business
- **Start: 1st September 2004**
- **More than 35 partners (contractors and affiliated)**

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Partners



AXMEDIS







EXITECH















































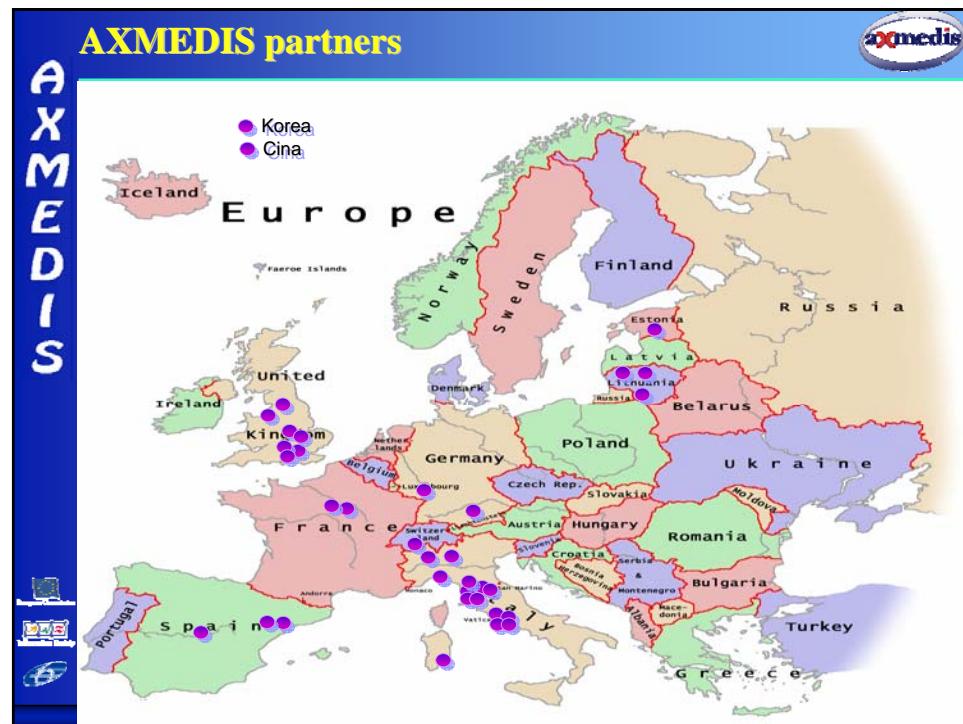






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AXMEDIS Objectives

- **Perform research on enabling technologies to allow**
 - ◆ reduction of distribution and aggregation costs for content production, protection and management
 - ◆ using and exploiting new models, methods and tools for content production, protection and distribution
- **Create a unified European platform for content production and distribution, developing the AXMEDIS framework to:**
 - ◆ Enable interoperability among different
 - ⇒ content formats, cross media and simple resources
 - ⇒ distribution channels (TV, PDA, mobile, kiosks, broadcasting,...)
 - ⇒ DRMs (digital rights management) models (e.g., MPEG-21, OMA, Windows DRM, etc.)
 - ◆ Enable massive processing for content production and distribution (on demand), license processing, event tracking, protection, tracking and DRM, exploitation of legacy CMSS
 - ◆ Enforce flexibility in business and transaction models
 - ◆ Integrate and Harmonize of DRM in B2B and B2C areas
 - ◆ Enable secure/legal P2P content sharing for both B2B and B2C
 - ◆ Reuse and improved present standards, remaining open and expandible

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Applications and Customers





● Applicative areas of AXMEDIS automation

- ◆ Entertainment, edutainment, infotainment, educational, etc.
 - ⇒ Real-time and non-real-time content production, distribution and sharing
 - ⇒ Internet, P2P, broadcast, IPTV, mobiles, DVB-T, DVB-S, DVB-H, etc.
- ◆ And also:
 - ⇒ banking, governmental, military and healthcare

● AXMEDIS Customers

- ◆ content management, production, protection and distribution
 - ⇒ Broadcasters, satellite, terrestrial, etc.
 - ⇒ Telecom operators, multichannel operators
 - ⇒ Content producers, editors, publishers
 - ⇒ Collecting societies
 - ⇒ Multimedia and cross media archives and WEB Portals
 - ⇒ Etc.

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Technical Applications of AXMEDIS





● General content management and processing

● Multi-channel production and distribution:

- ◆ broadcasting, IP/Internet, WEB sites, P2P, mobile, PDA, IPTV, interactive TV and channels, etc.

● Multi-channel experience for your customers

● Exploit Video on Demand (VOD) solutions

● Exploit Production on Demand solutions

● Control of P2P content sharing and distribution, involving your customers in distribution (super-distribution)

● Involve your customers and final users in content production and social networking

● Integrate interoperable DRM into your business (MPEG-21, OMA, etc.)

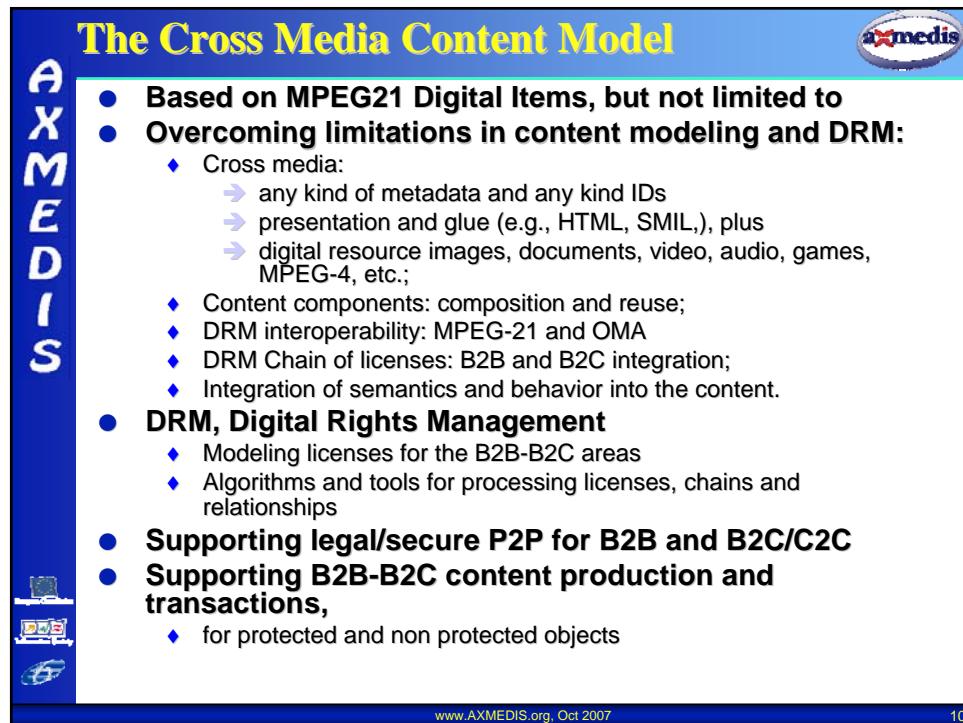
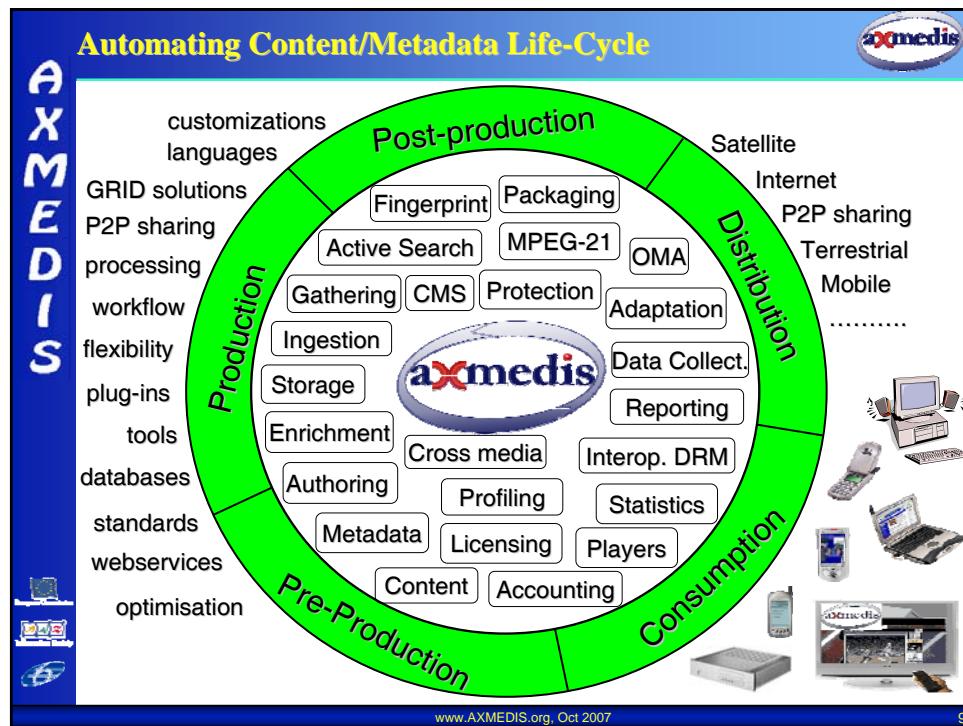
● Exploit different business models and/or transactions on the same distribution channels: pay per play, monthly rate, preview, renting, advertising, etc.

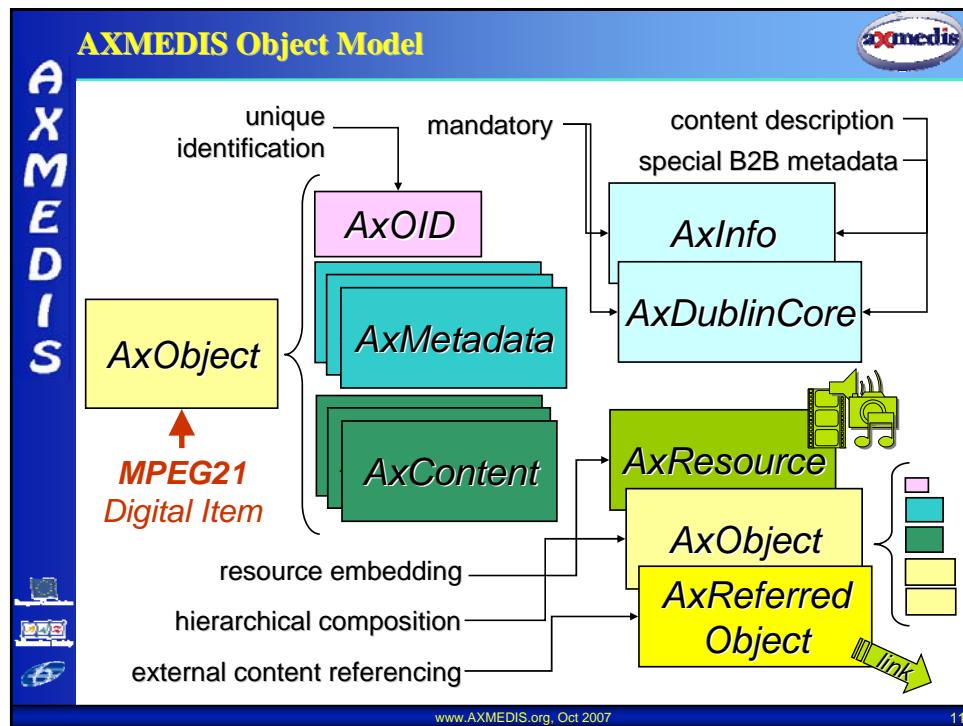
● Exploit interactivity with cross media models

● Adopt advertising (customized and/or real time personalized advertising)

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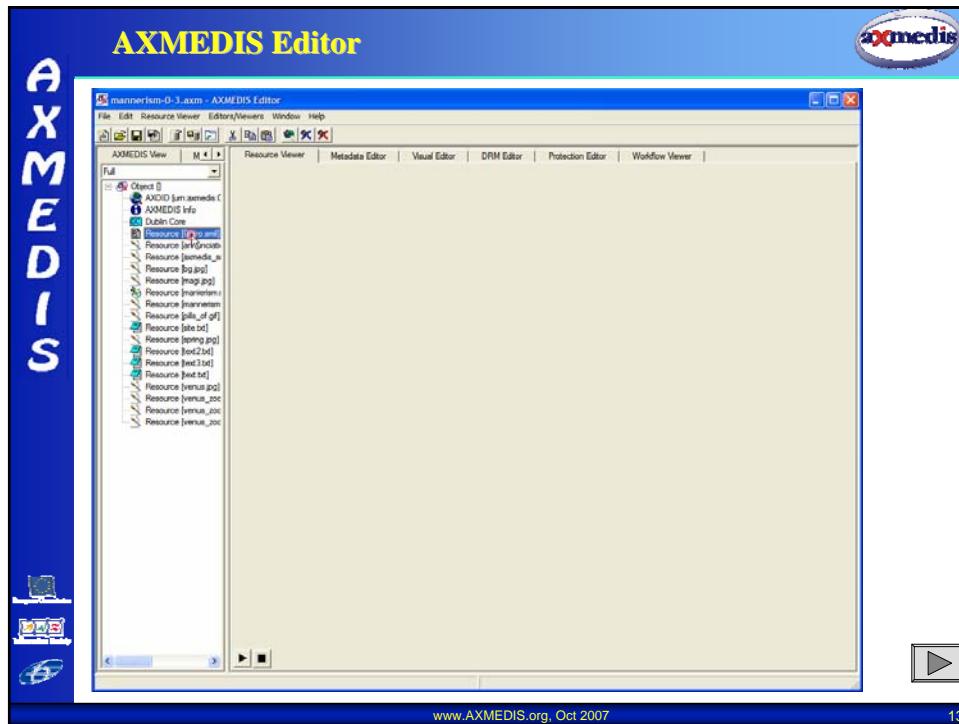


AXMEDIS Authoring Editor

The screenshot shows the AXMEDIS Authoring Editor interface. On the left, there is a vertical toolbar with icons for text, video, and audio. The main window has two panes: the left pane is titled "Resource View" and shows a tree view of object types like "Object Type of Model", "Object Paulus Magdal.", etc.; the right pane is titled "Metadata View" and displays a detailed view of a specific object's metadata, including fields for "Title", "Text", "Image", and "Annotations". A context menu is open over the image thumbnail in the right pane, listing options such as "Load", "Fit", "Zoom in", "Zoom out", "Fullscreen", "Show button", "Show slide", "Show button page", "Show button zoom", "Show Video", "Play Audio", "Show Image", "Show Document", and "Empty".

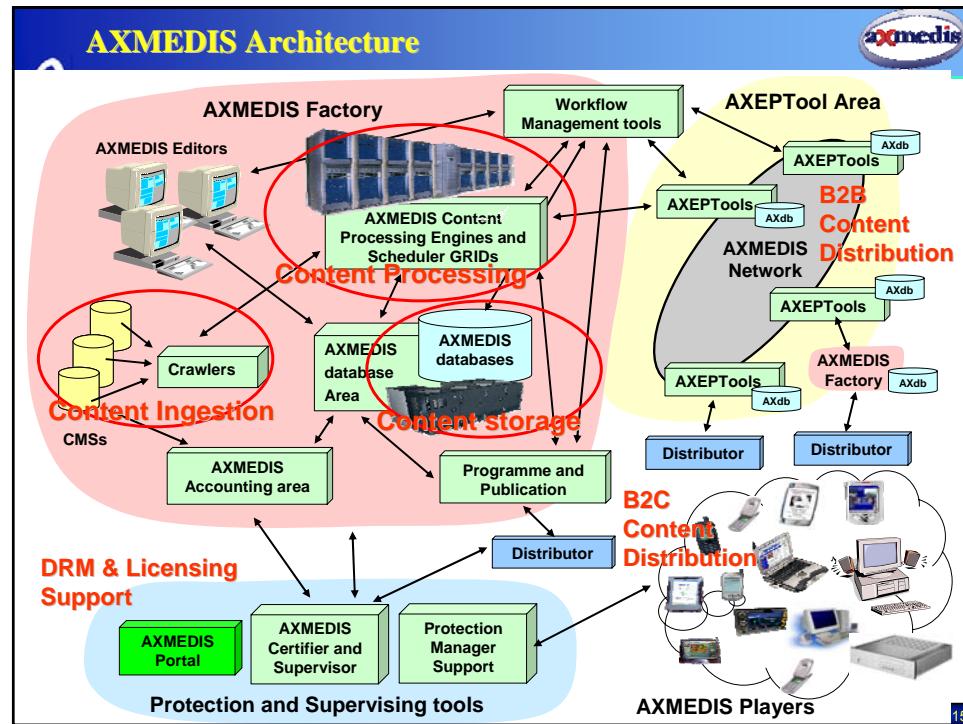
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- **The AXMEDIS Editor is an application allowing**
 - ◆ manual production of AXMEDIS objects
 - ◆ inspection of automatically produced objects
 - ◆ finishing AXMEDIS objects pre-produced automatically
- **It integrates many Editors & Viewers to handle all the aspects of the AXMEDIS Objects production**
 - ◆ Resource
 - ◆ OBJ Composition
 - ◆ Metadata
 - ◆ DRM/Licenses
 - ◆ Protection
 - ◆ Presentation
 - ◆ Behavior
 - ◆ Etc....



Major AXMEDIS Tools

- **Players for cross media content:**
 - ◆ PC, PDA, STB, mobiles, etc.
 - **DRM and protection support**
 - **Content Production tools**
 - ◆ Authoring tools for cross media content: AXMEDIS Editor
 - ➡ for content, protection and licenses
 - ◆ Automated production tools for content, protection packages and licenses: AXCP, Workflow
 - ◆ CMS: search and retrieval, automated connection with your own and/or third parties CMSs
 - **Content Distribution**
 - ◆ P2P tools for B2B and C2C in a controlled and safe/legal manner: AXEPTool, AXMEDIA
 - ◆ User and tool Registration portals
 - ◆ Certification authority, AXCA
 - ◆ License Server and Certifier and Verificator, PMS/AXCS
 - ◆ Scheduling: Program and publication, Workflow, etc.
 - ◆ Distribution Portal



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Interoperable Players

AXMEDIS

- PC players with full functionalities**
 - Stand Alone Player for Windows
 - Version with Replaceable skins
 - Active X Player for Windows, for:
 - Integrating player in Html pages
 - Microsoft Internet Explorer Browser
 - Macromedia tools Authorware
 - Realising customised AXMEDIS Players based on .NET
 - Plug in for Mozilla Internet Browser
 - Integrating player in Html pages
 - Two different skins
- PDA player:**
 - MPEG-4, SMIL, HTML
- STB player:**
 - for IPTV
 - for DVB-S
 - MPEG-2, MPEG-4
- Mobile player:**
 - A pure Java player will be ready for October 2007
 - SMIL support with Audio Visual, MMAP API of Java

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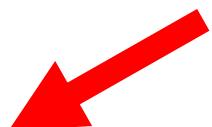


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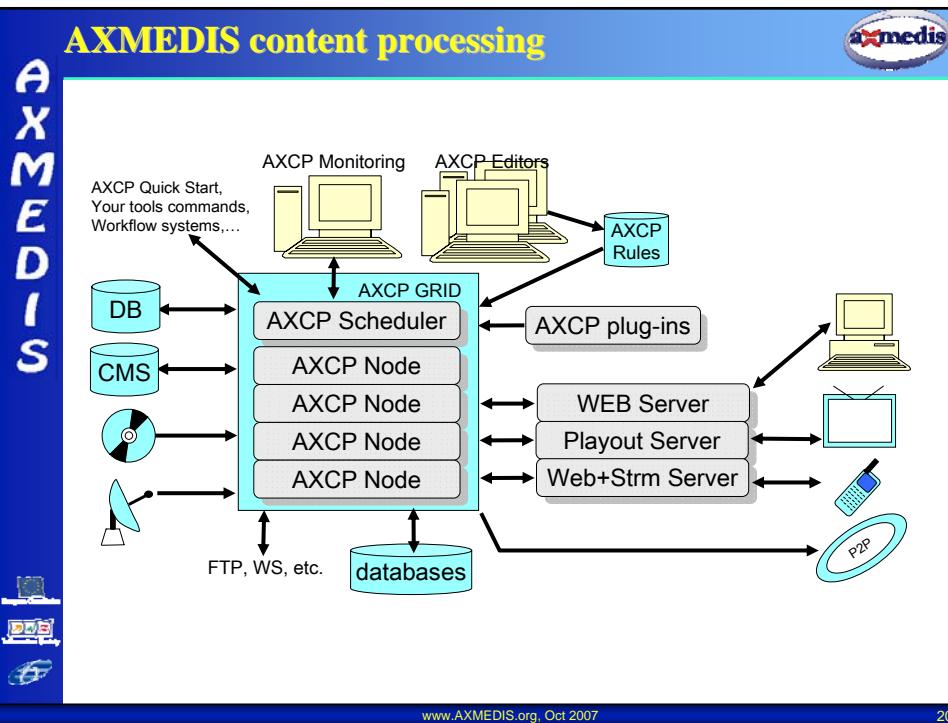
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AXMEDIS Content Processing Platform





AXCP GRID solution allows automated management of:

- ◆ content, metadata and licensing information, etc.,

operations of

- ◆ ingestion, crawling, database management, indexing, processing, adaptation, transcoding, encoding, decoding, descriptor extractor, recognition, filtering, production, archiving, storing, packaging, preview, extracting fingerprint, licensing, DRM, profiling, protection, encryption, accounting, enrichment, network management, etc.

AXCP tools can be integrated and controlled by your applications and/or workflow management systems.

AXMEDIS allows you to reduce costs and increase efficiency of your content management.

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AXMEDIS Content Processing Platform





AXMEDIS supports the whole value chain and makes real and simple the convergence of media,

- ◆ media transcoding,
- ◆ interoperability of content enabling multi-channel distribution (e.g., mobile, satellite, kiosk, iTV, web, P2P, interactivity, etc),
- ◆ provides a flexible and interoperable DRM, for both B2B and B2C across traditional and P2P distribution platforms.

AXCP solution is based

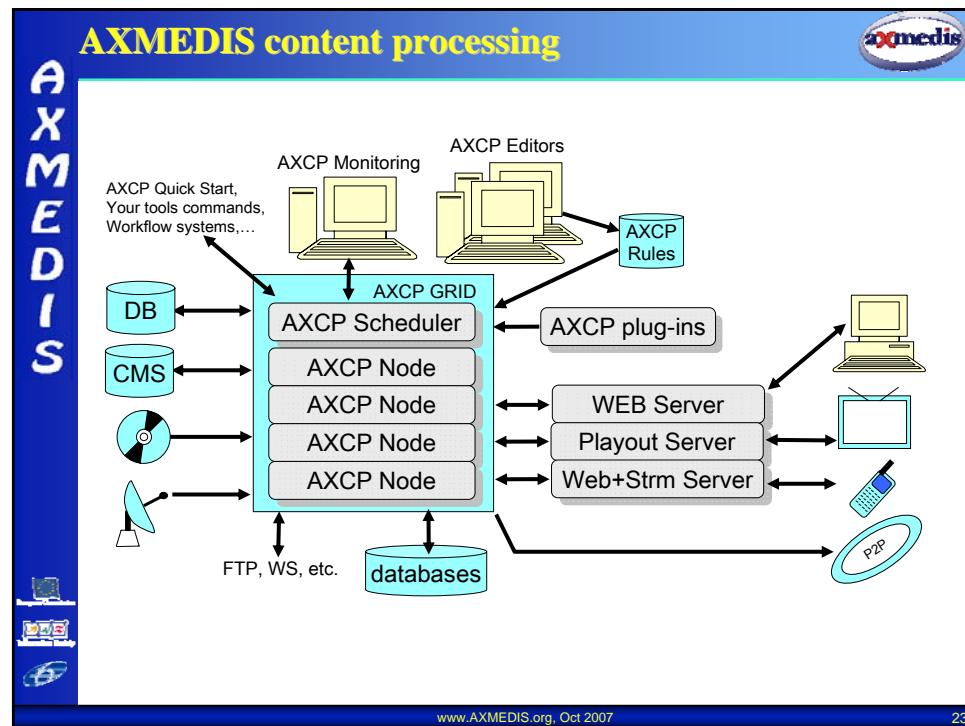
- ◆ AXCP Rules formalized in JavaScript and XML to define jobs, processes and their features (deadlines, needs, etc.).

The AXCP tools are based on a Service Oriented Architecture (SOA);

- ◆ fully documented APIs for all the JavaScript functionalities, and WEB Services for accessing and controlling tools, and for distributing produced content towards your front-end distribution servers.

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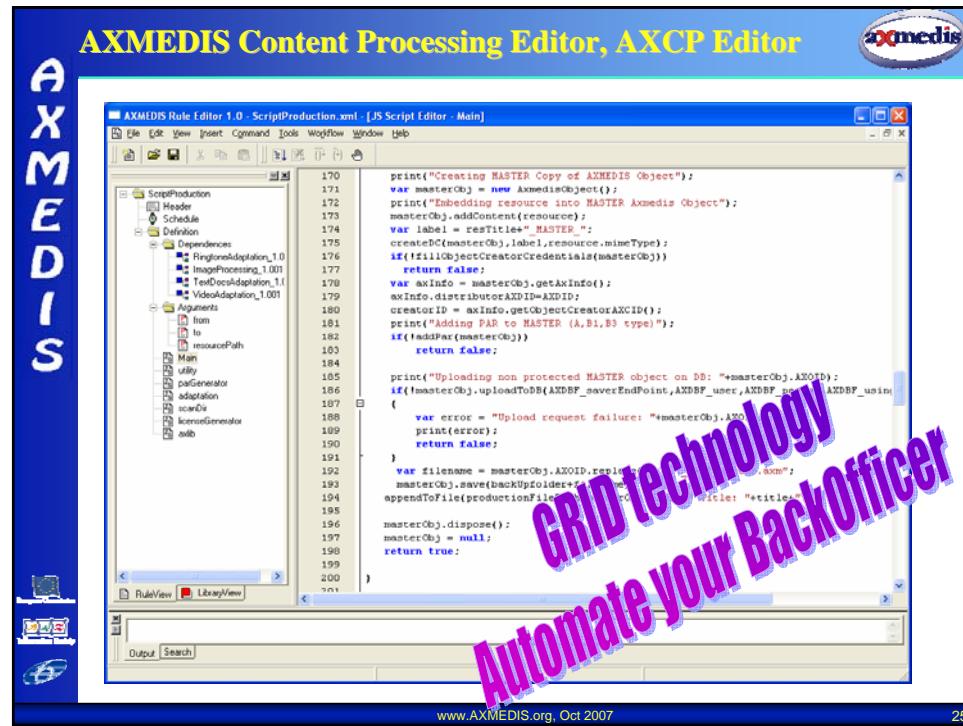
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AXMEDIS CP GRID tools

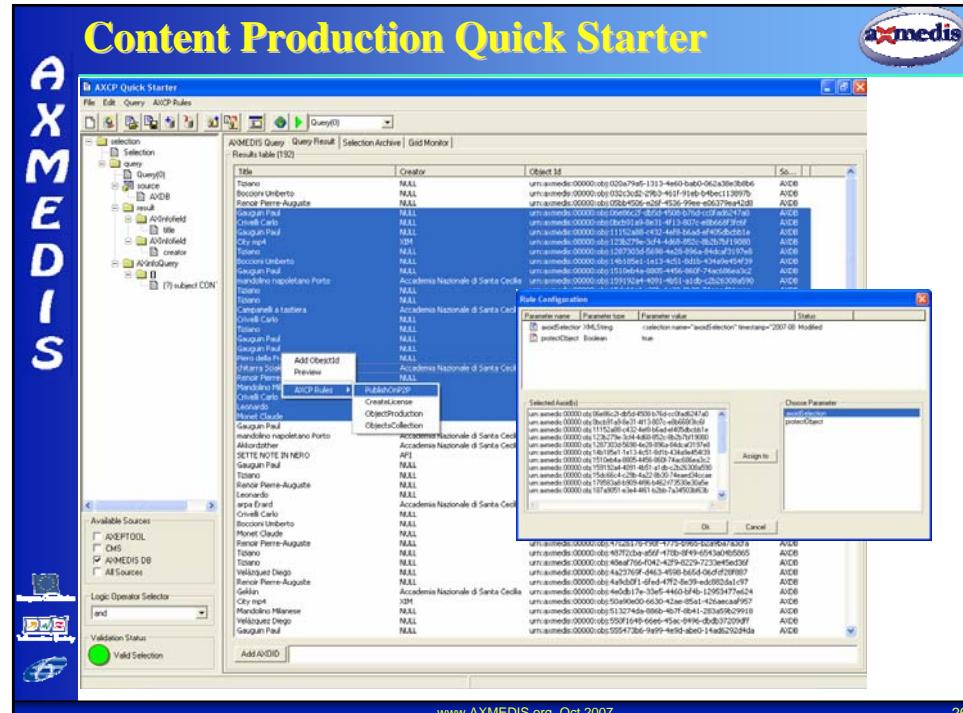
- **AXCP Rules can be:**
 - ◆ activated for content processing on any AXCP Node as well as on a single computer
 - ◆ used/parameterized to produce content on demand or to be integrated in your content factory
 - ◆ activated from your Workflow Management System or from any other application
 - ◆ activated by changes in remote objects and queries in the local database and on the P2P network.
- **AXCP Nodes allow to be controlled by an AXCP Scheduler.**
The stand alone version of the AXCP Node can be used for executing AXCP Rules for ad-hoc processing and activation without demanding their allocation and scheduling to the AXCP Scheduler.
- **AXCP Scheduler to allocate and manage AXCP Rules on Nodes:**
 - ◆ scheduling and balancing jobs/processes on AXCP Nodes
 - ◆ activating jobs as sporadic and periodic tasks
 - ◆ monitoring progress of production processes and their status, etc.
- **AXCP Rule Editor allows you to produce, debug, test and validate AXCP Rules to execute them on AXCP Nodes**
- **AXCP Quick Start allows you to activate Rules in simple manner by passing them parameters;**

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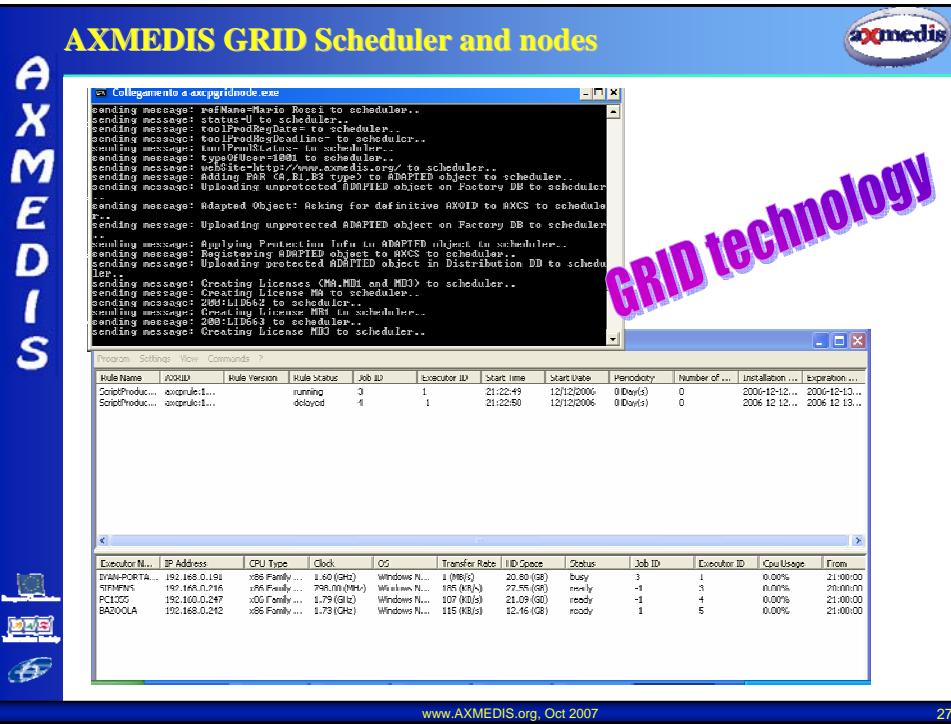
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AXCP allows you Automating:

- Workflow management and harmonize Production Process
- Content and metadata access, ingestion and gathering
- Content and metadata management and retrieval
- Metadata modeling and processing
- Content Processing for audio videos, document, images, multimedia, cross media, and any files
- Content Composition Presentation and Interactive models
- Multimedia and cross media adaptation/processing
- General Information Processing
- Content Packaging, for media Containers and DRM
- Content Formatting
- Content Adaptation Process
- Content Protection and DRM
- Content Licensing and DRM
- Content Publication and Distribution
- Communication Capabilities with multiple channels
- Control of P2P network

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AXMEDIS content processing





- **AXCP solution is open since it can be expanded and/or customized for your needs by:**
 - ◆ creating and customizing AXCP Rules to be executed on AXCP Nodes
 - ◆ putting in execution Rules according to different policies such as: periodic, sporadic or on demand from third parties, external tools, web services, etc.
 - ◆ customizing, realizing and installing additional AXMEDIS plug-ins to add new formats, encoders, decoders, adapters and converters, etc.
 - The AXMEDIS Plug-in technology is open, well documented and supported by a development tool kit
 - ◆ organizing AXCP GRID Nodes in a hierarchical manner.
 - An AXCP Node may control one or more AXCP Schedulers which in turn may control other AXCP Nodes, etc.
 - ◆ executing operating system processes, passing them parameters/files and getting eventual errors.

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An example of statement

Condition = November 2003

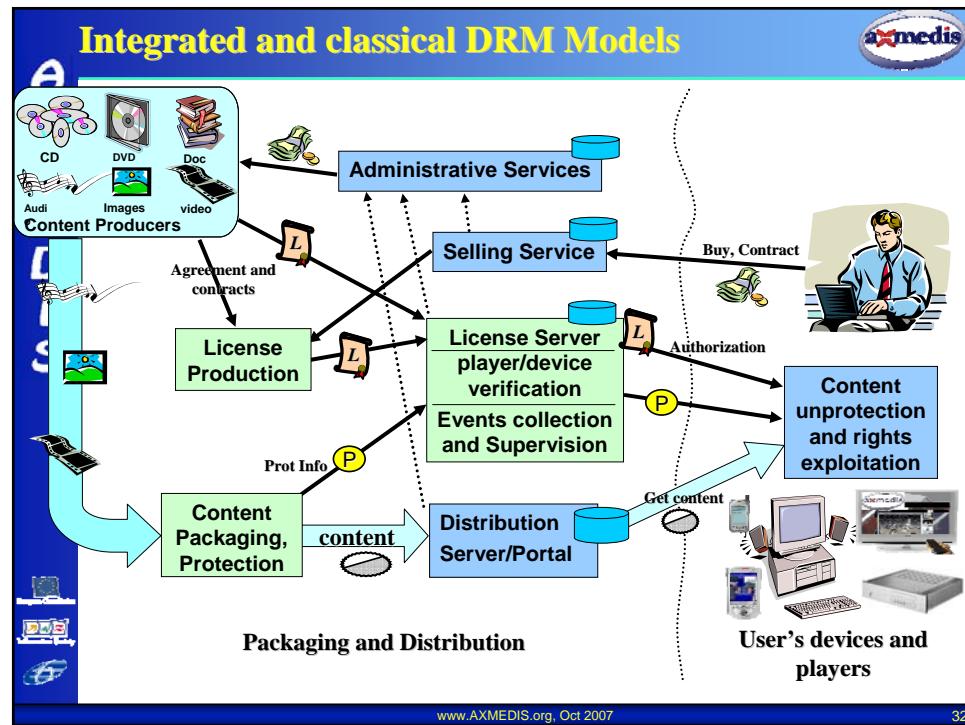
Resource = Ocean Wilds

Right = Play

- Rosy can Play 3 times the Ocean Wilds in November 2003.

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List of Events/Actions on rights Exploitation





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- **Collecting Events and Actions**
 - ◆ Further reporting
 - ◆ Further verification of consistency
 - ◆ provide the evidence about the exploitation of rights to: content owners, producers, collecting societies, distributors, etc.
 - ◆ provide the billing information to the final user
 - ◆ provide the statistical information
- **Counting the usage, exploitation of rights**
 - ◆ how many times a music piece has been played, how many print out have been produced, etc.
 - ◆ Dynamic definition of price for example...
- **MPEG-21 Event Reporting**
 - Specifies how to express ER-Request and Event Report and how they are represented as digital item

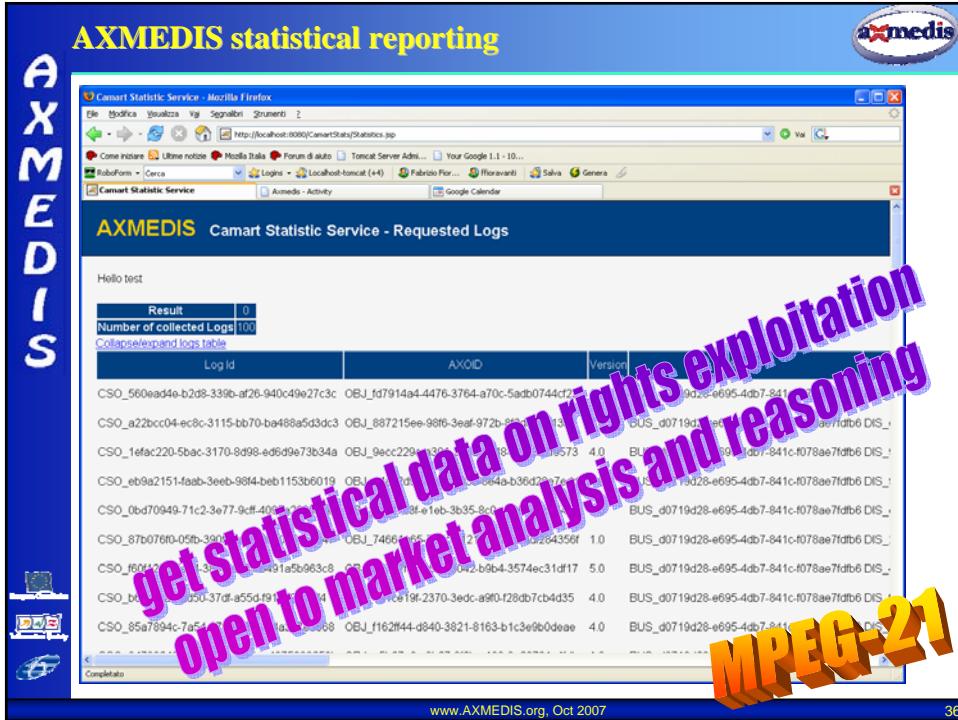
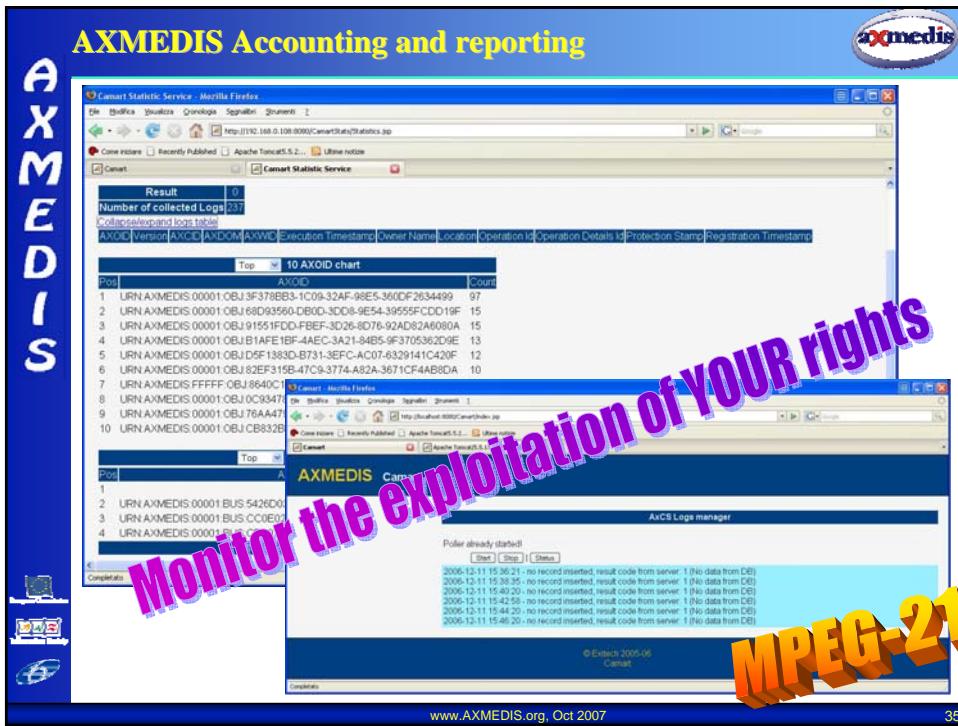
Reporting, accounting manager and tool, examples

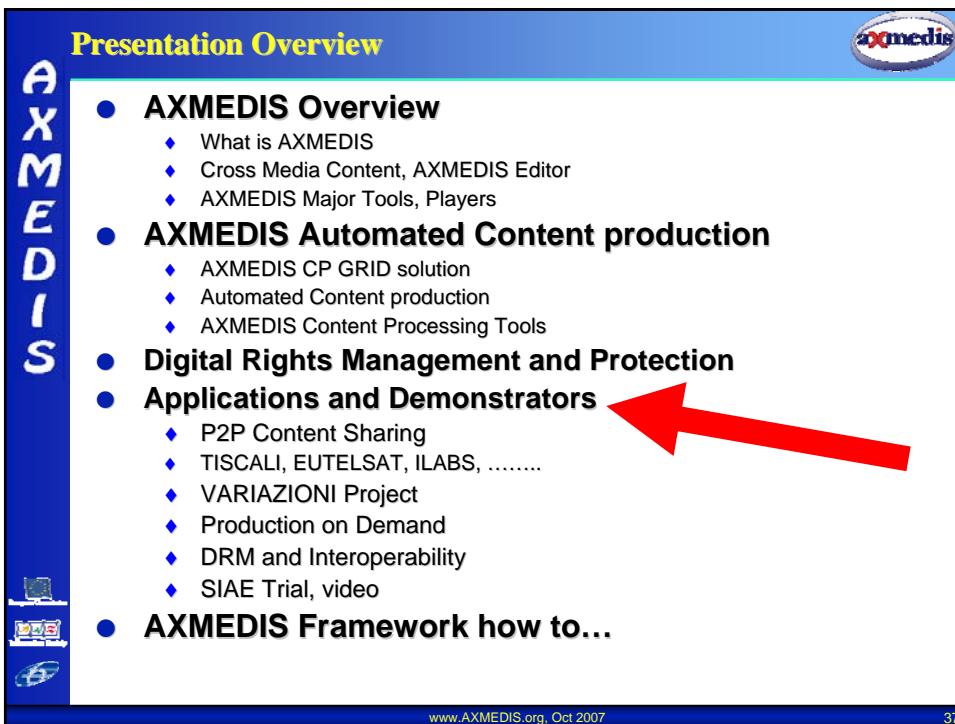




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- **Reporting to Distributor**
 - ◆ Each exploited right with references to the User-ID for each distributed object (objects that contains its Dist-ID)
- **Reporting to the Integrator/creator**
 - ◆ Who create new object from other objects of from scratch
 - ◆ The number of exploited rights for each object that contains the Creator-ID and the Dist-ID for each of them
- **Reporting for the Collecting societies, CS**
 - ◆ Who is monitoring the exploited rights for third parties, for other creators
 - ◆ The number of exploited rights for each Creator-ID associated with the CS, for each object that contains the Creator-ID and the Dist-ID for each of them, in a certain Geographic Region or State





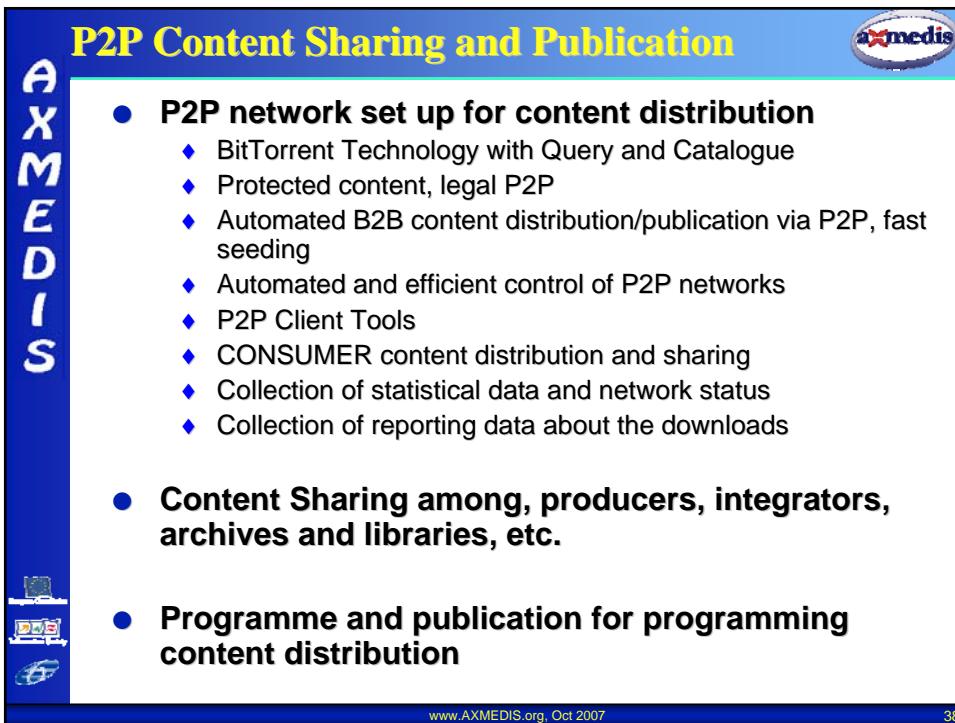
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P2P Content Sharing and Publication

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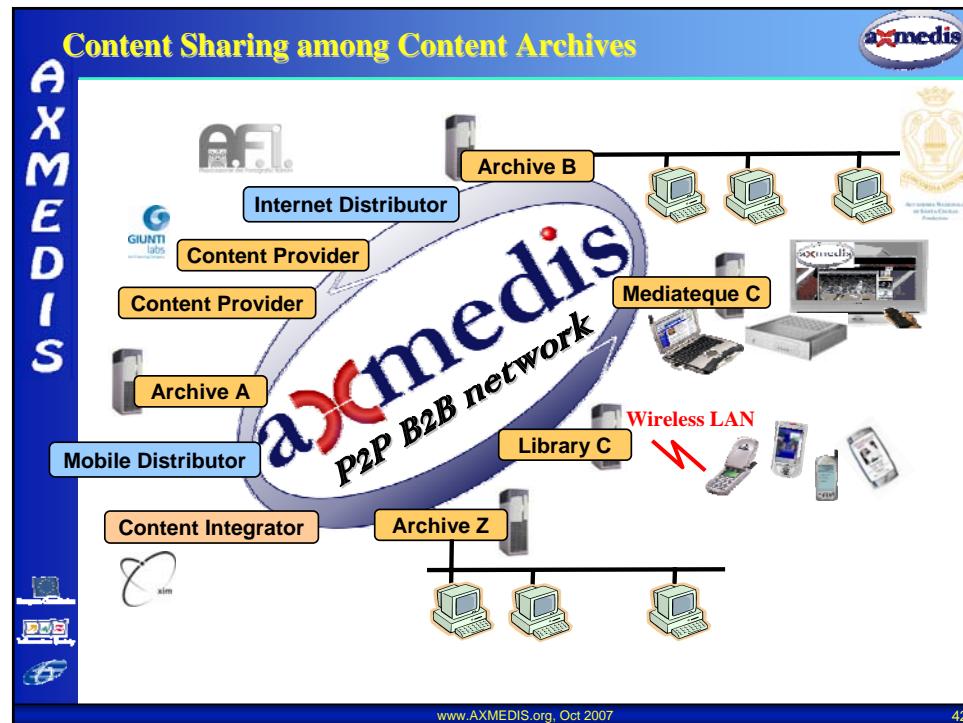
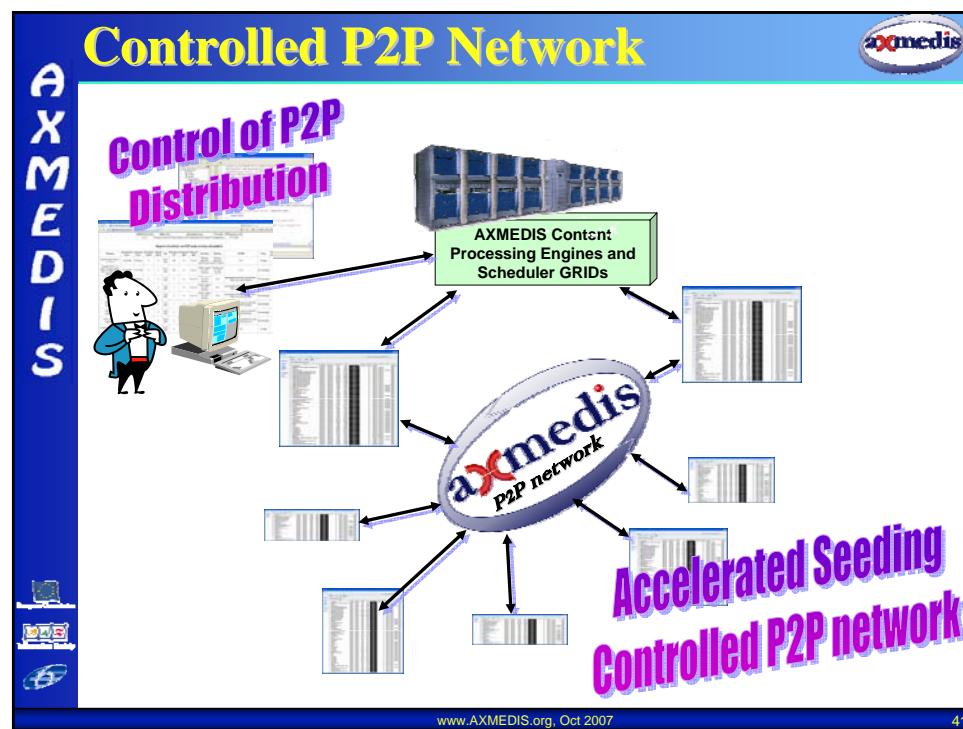
- **P2P network set up for content distribution**
 - ◆ BitTorrent Technology with Query and Catalogue
 - ◆ Protected content, legal P2P
 - ◆ Automated B2B content distribution/publication via P2P, fast seeding
 - ◆ Automated and efficient control of P2P networks
 - ◆ P2P Client Tools
 - ◆ CONSUMER content distribution and sharing
 - ◆ Collection of statistical data and network status
 - ◆ Collection of reporting data about the downloads
- **Content Sharing among, producers, integrators, archives and libraries, etc.**
- **Programme and publication for programming content distribution**

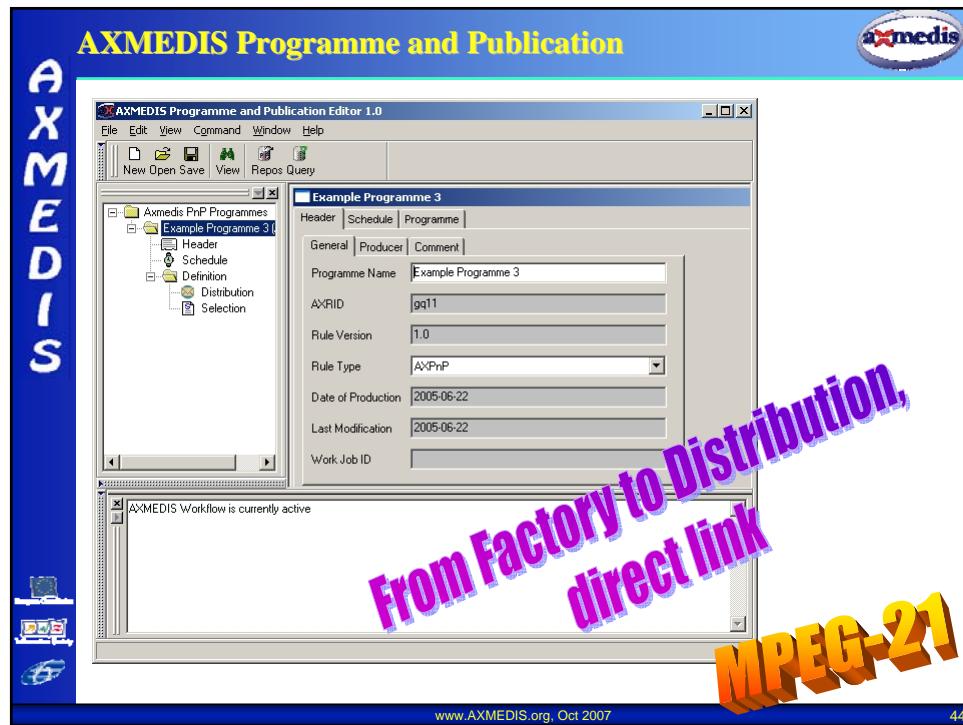
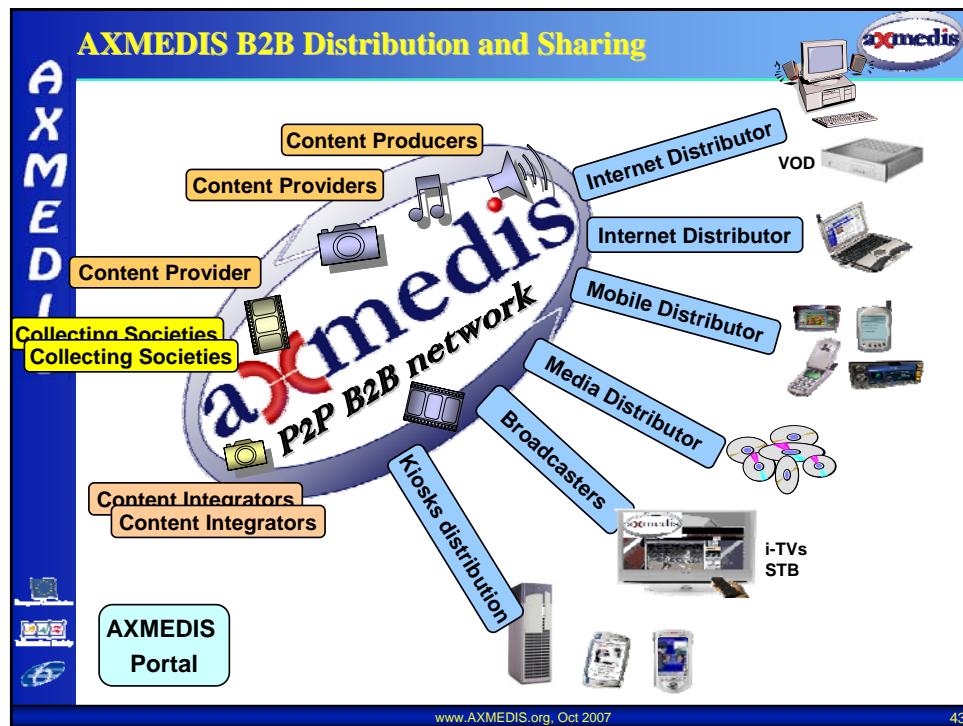
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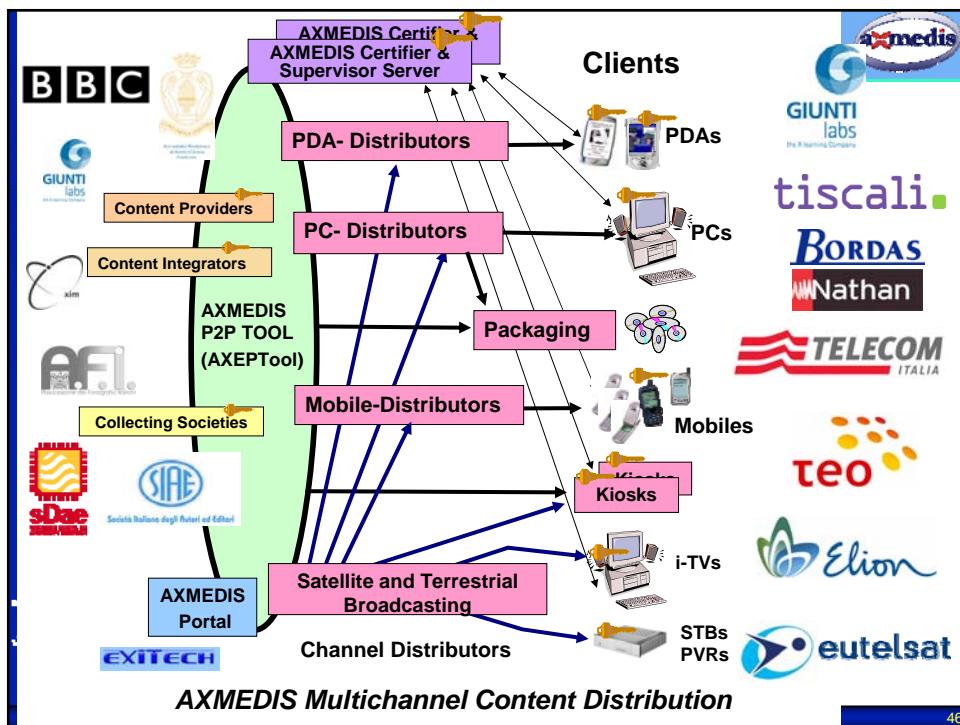
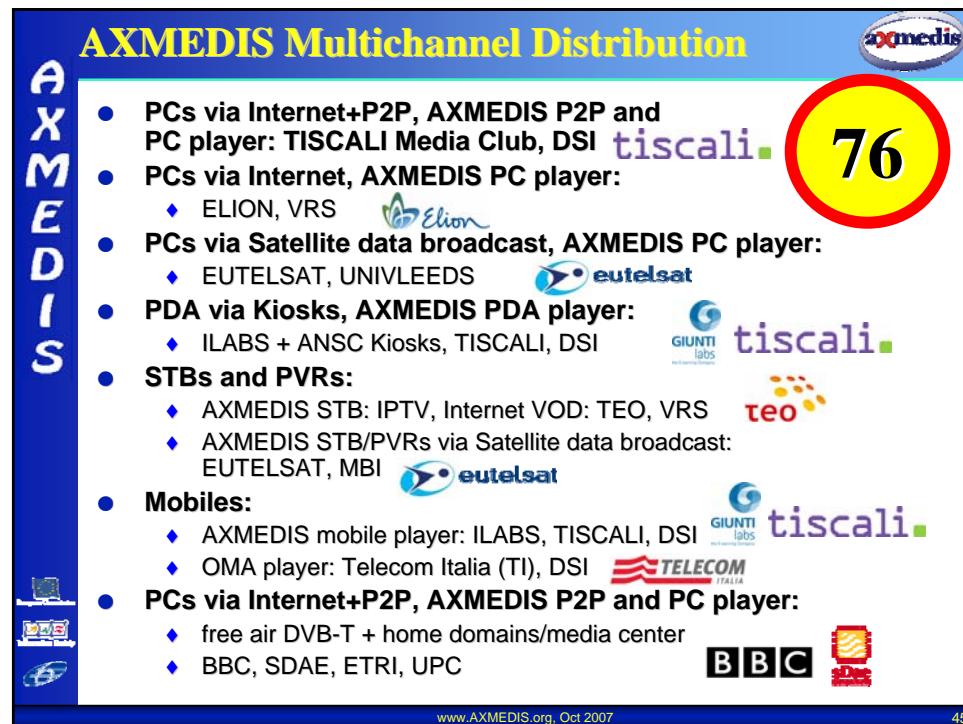
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AXMEDIS P2P Tools

- **AXMEDIS P2P tools for content sharing respecting IPR**
 - ◆ Content Distribution and P2P file sharing based on BitTorrent
 - ◆ DRM support, supervision and control
 - ◆ Certified metadata, etc.
 - **AXEPTool**
 - ◆ Only for B2B
 - ◆ Technical queries and information:
 - Features, descriptors, duration, formats, license information, distribution model, etc.
 - ◆ Automated loading and publication via the AXCP tools
 - ◆ Control and certification of metadata
 - **AXMEDIA tool:**
 - ◆ Only for C2C and B2C
 - ◆ Simple queries on simple user focussed metadata
 - ◆ Simple management of files on the file system
 - ◆ Control and certification of metadata



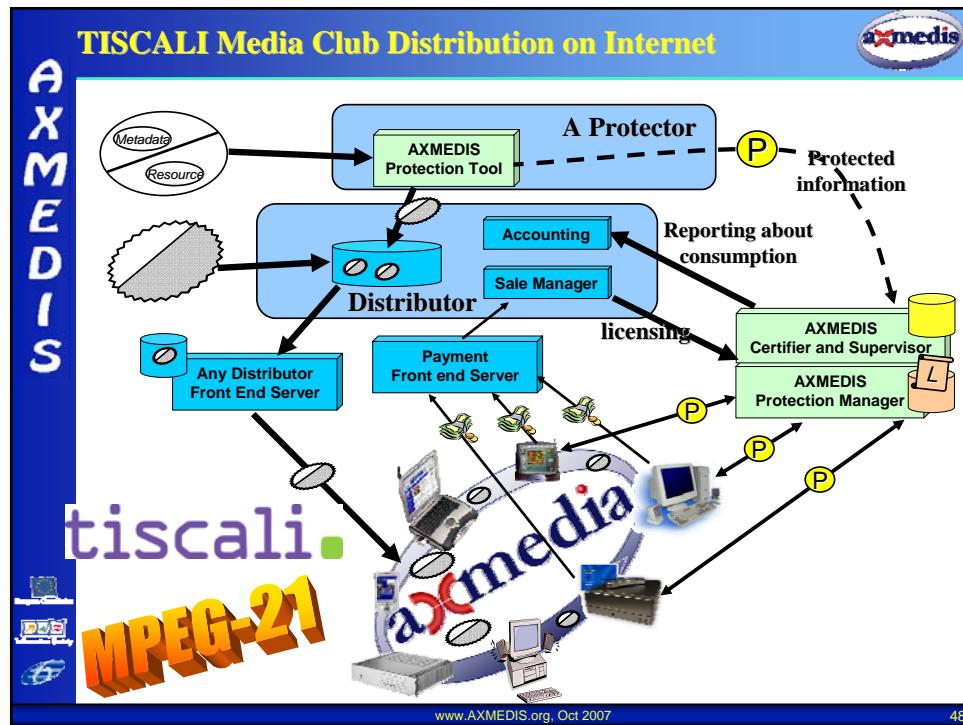






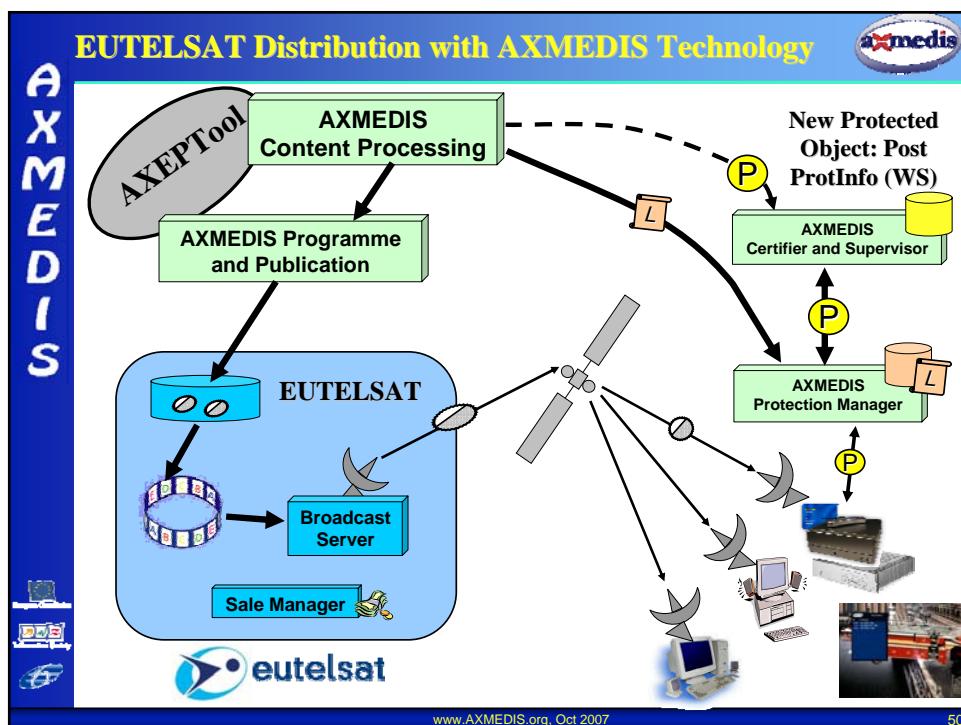
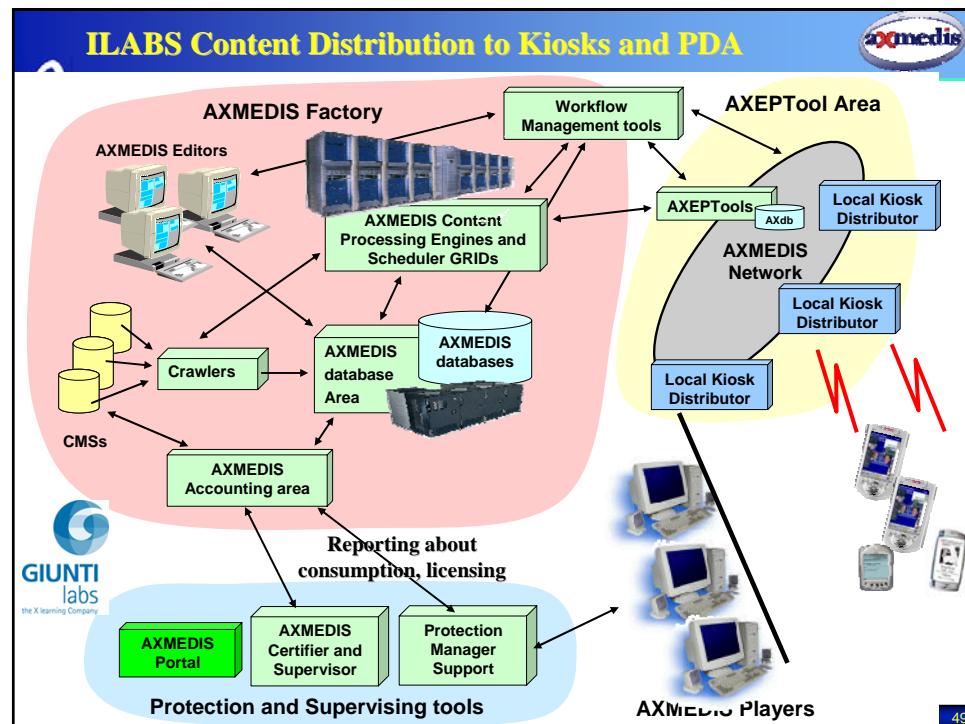
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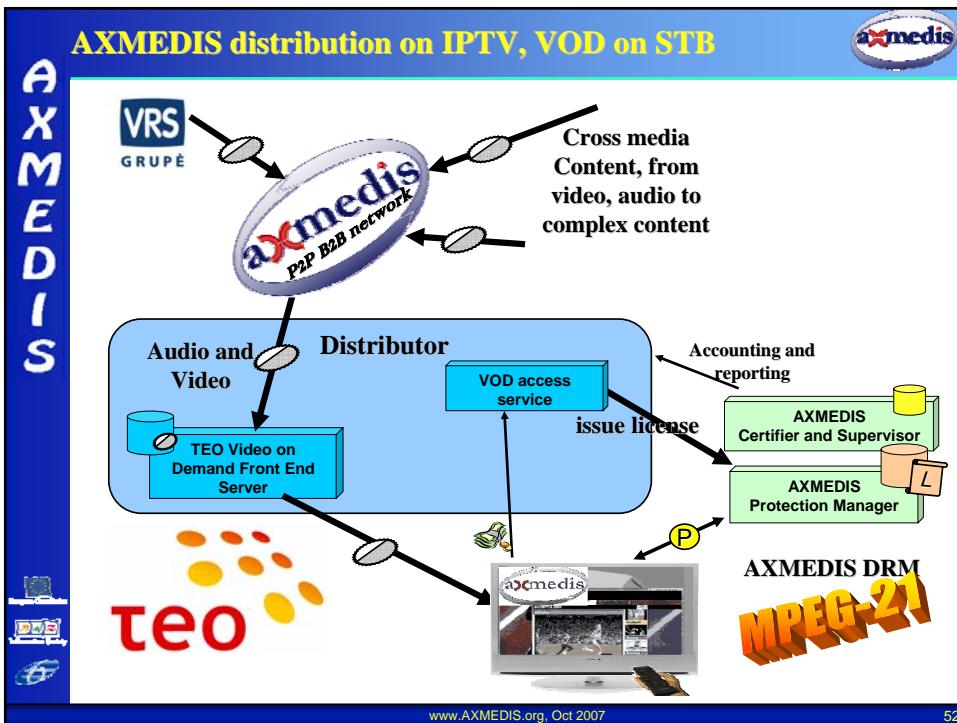
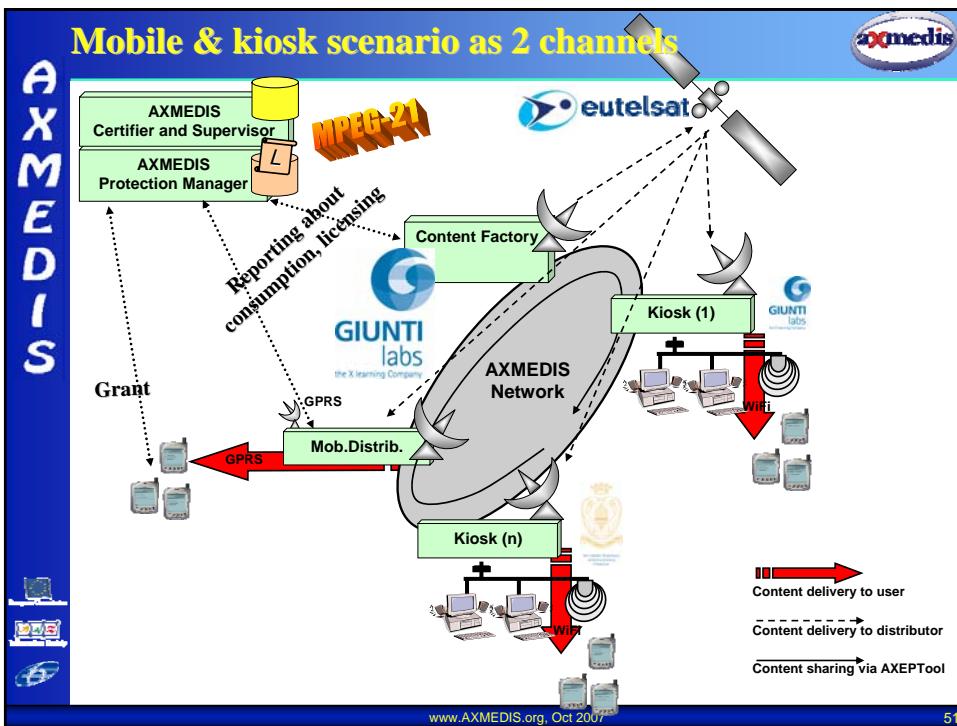
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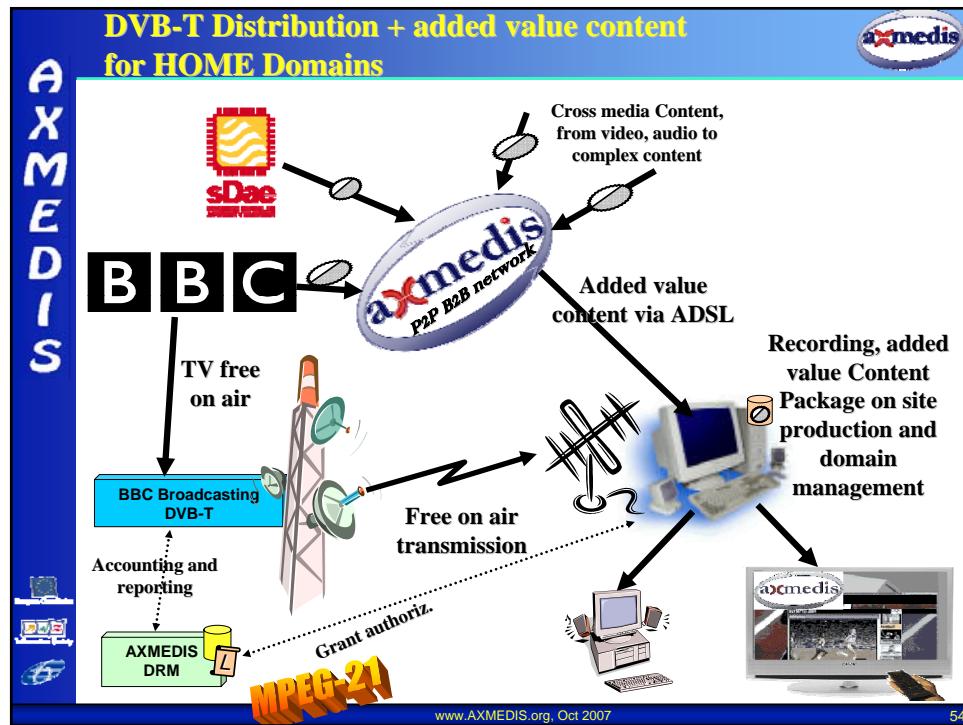
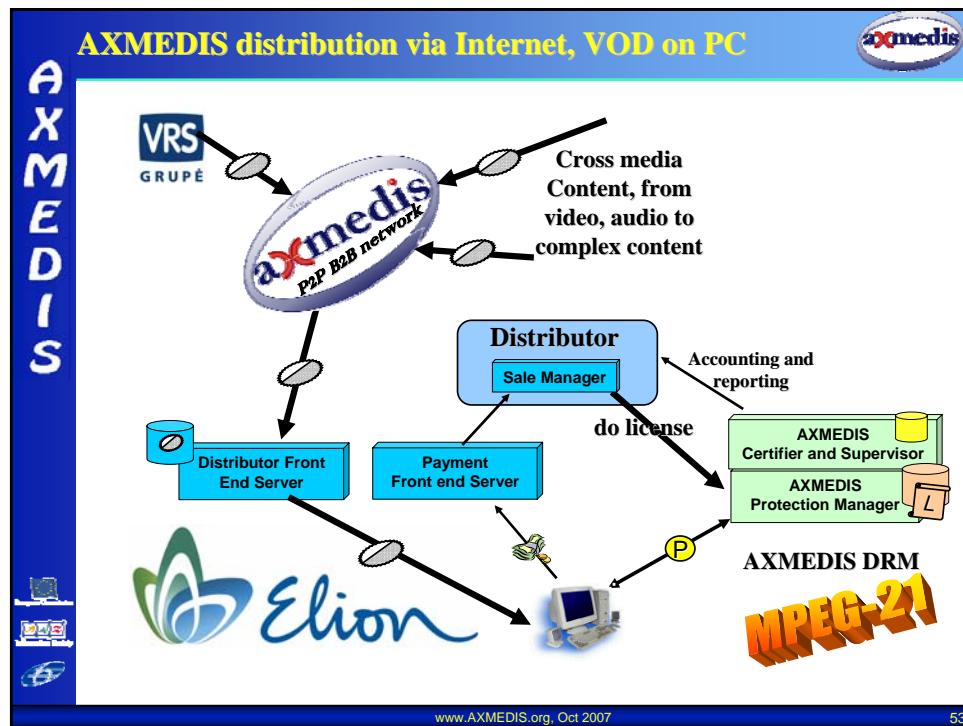


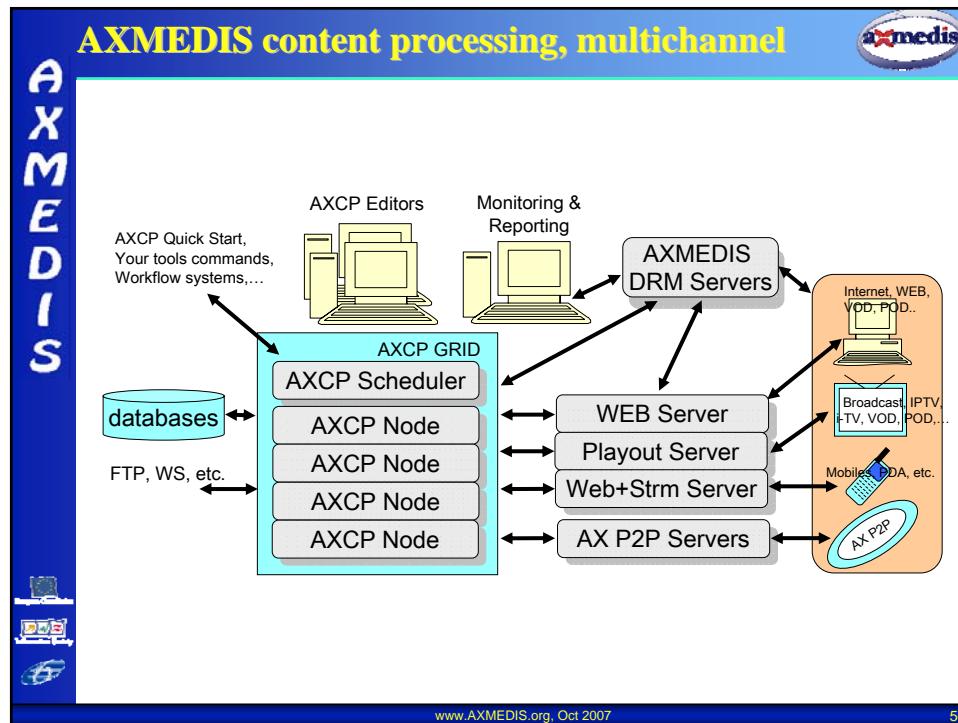
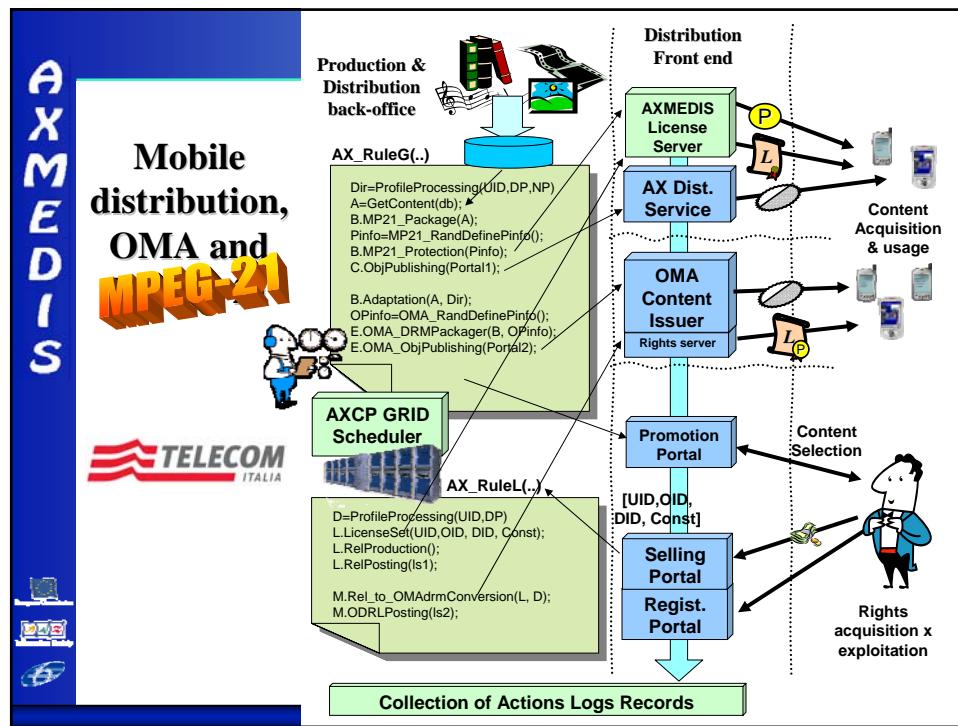
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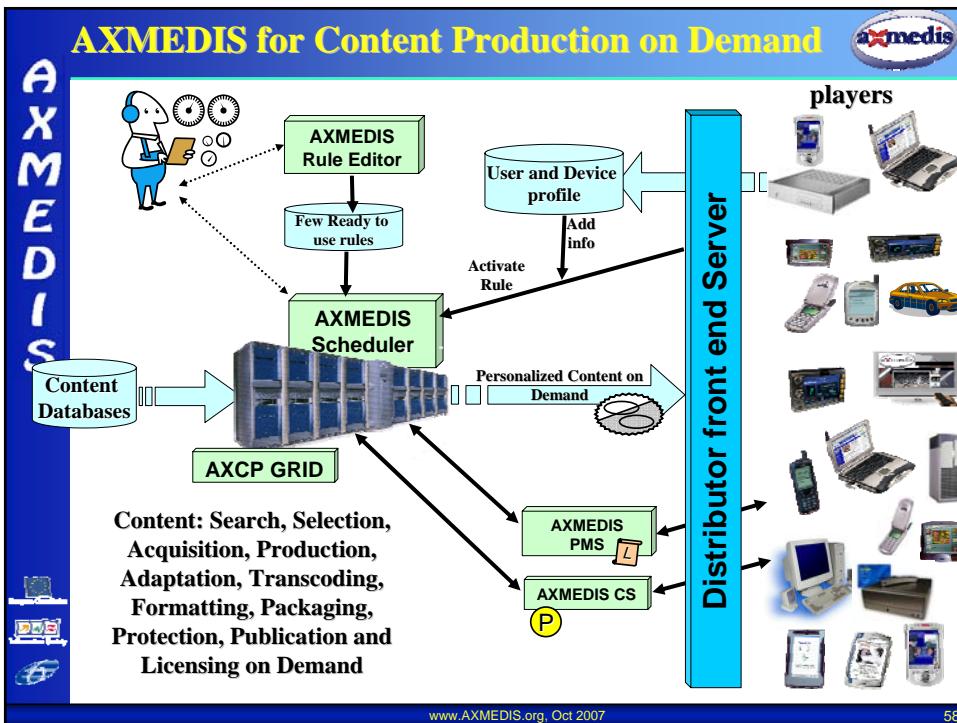
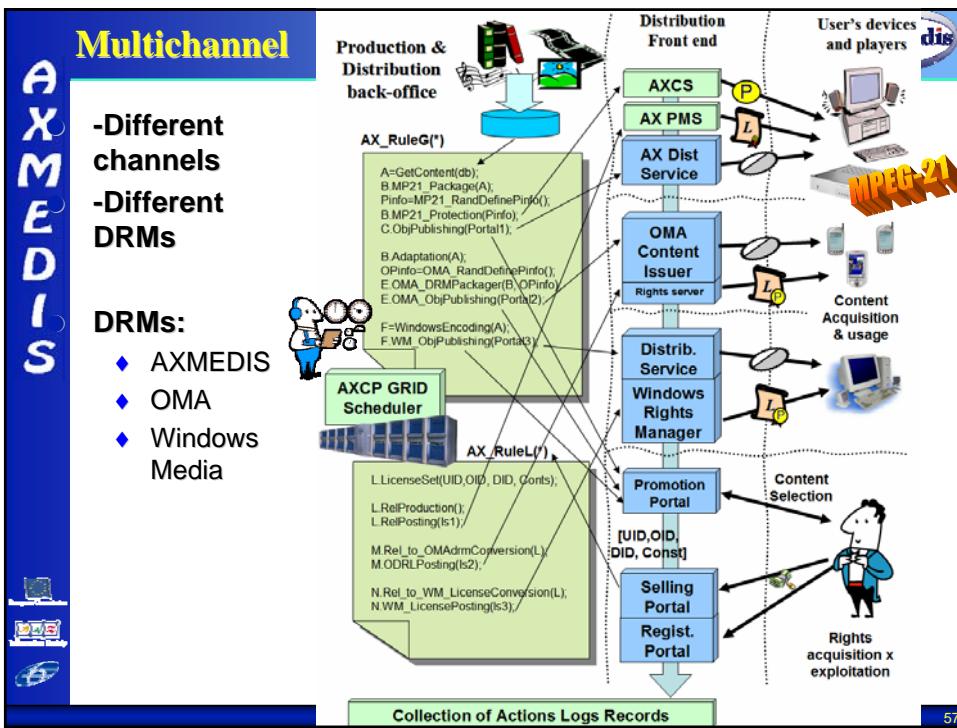
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FINAL USERS production and distribution

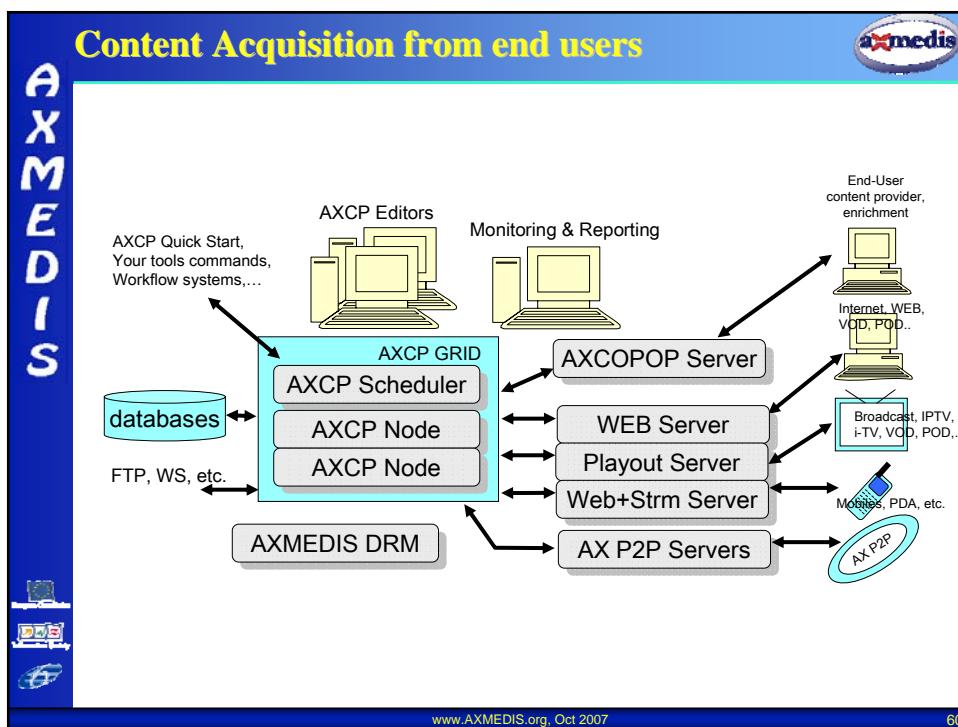
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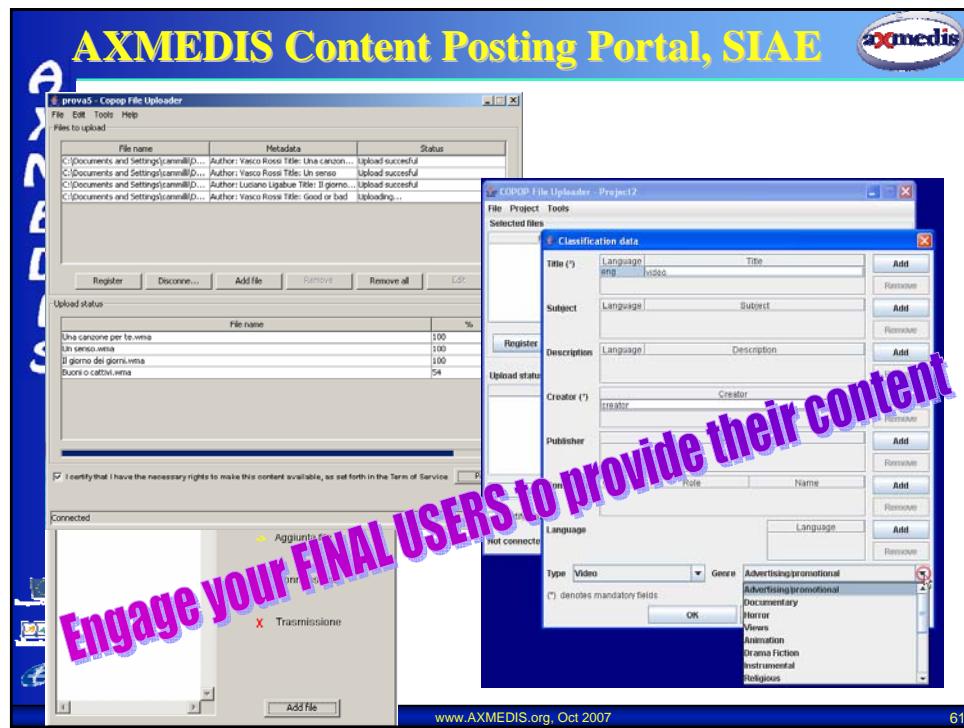
- **Content production tools for final users, SIAE trial**
 - ◆ Set up a service for finala users' content collection and distribution with/without DRM
 - ◆ Content Posting client (COPPOP)
 - ◆ Content Posting PORTAL server (COPPOP Srv)
 - ◆ Content distributor portal

- **Content Enrichment with AXMEDIS:**
 - ◆ VARIAZIONI e-ContentPlus
 - ◆ More than 10 partners + communities
 - ◆ www.variazioni.org

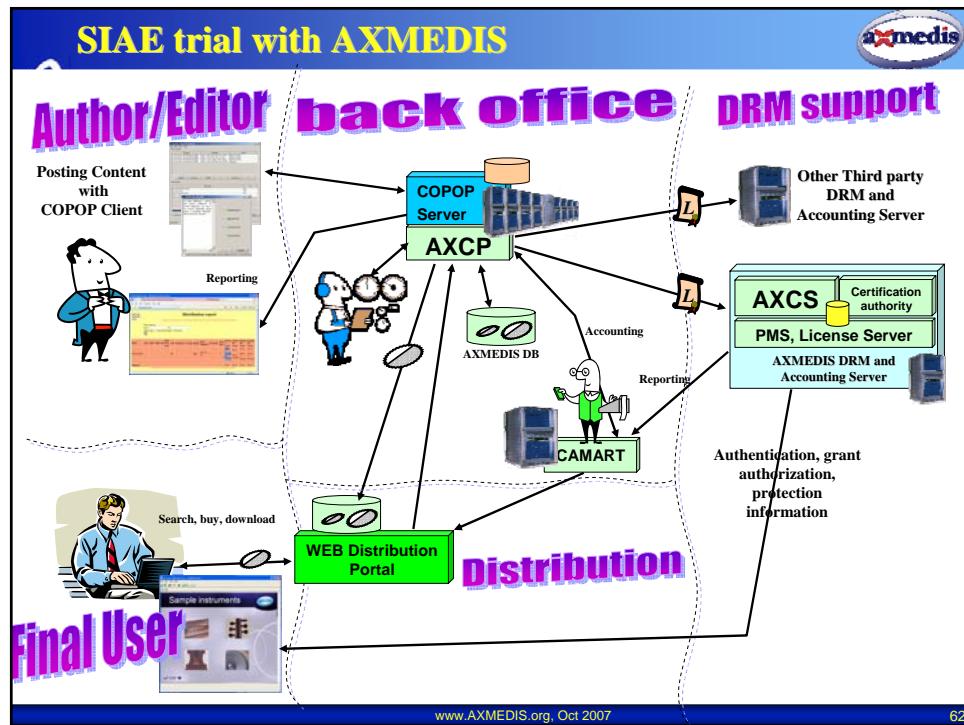
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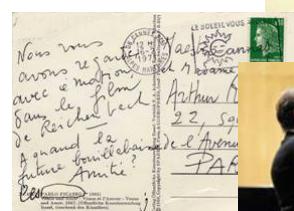
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For Content Enrichment with  

**A
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- **700 hours of audiovisual**
 - ◆ Master classes of famous magisters (Harmos)
 - ◆ Concerts
 - ◆ Conferences
 - ◆ Special Events...
- **1000 hours of audio**
 - ◆ Concerts
 - ◆ Lessons
 - ◆ Rehearsals of concerts
 - ◆ Popular Songs...
- **2000 historic documents**
 - ◆ Programs of concerts
 - ◆ Letters
 - ◆ Scores
 - ◆ Images
 - ◆ Articles
 - ◆ Pedagogical Material






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Partners in  

**A
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- **Coordinator and content provider**
 - ◆ Fundacion Albeniz (FIA)- Spain
- **Technical providers**
 - ◆ Germinus XXI, Grupo Gesfor (Germinus)- Spain
 - ◆ Dipartimento di Sistemi e Informatica, Università degli Studi di Firenze (DSI) -Italy
 - ◆ Rigel Engineering SRL (Rigel)- Italy
 - ◆ Music Technology Group, Universitat Pompeu Fabra (UPF)- Spain
 - ◆ Exitech SRL - Italy
- **Content providers**
 - ◆ Lithuanian Academy of Music and Theatre (LMTA)- Lithuania
 - ◆ Koninklijk Conservatorium Brussel, Erasmushogeschool Brussel (EHB)- Belgium
 - ◆ Escola Superior de Música e Artes do Espectáculo do Porto (ESMAE)- Portugal
 - ◆ Sibelius Academy (SIBA)- Finland
- **Dissemination**
 - ◆ Association Européenne des Conservatoires, Académies de Musique et Musikhochschulen (AEC) - Netherlands



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Presentation Overview

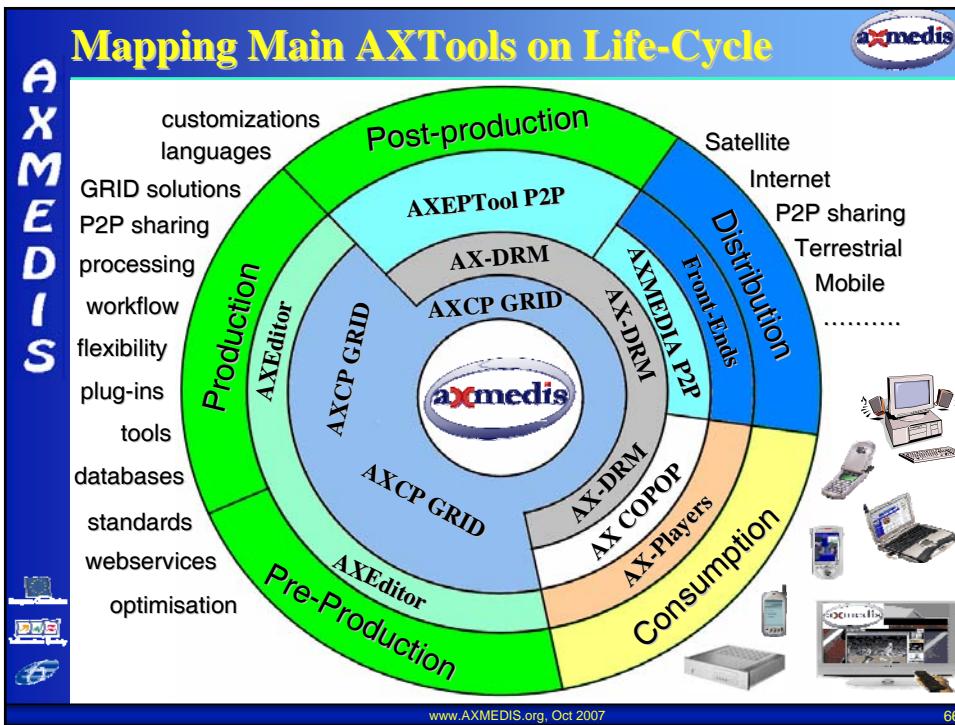



AXMEDIS

- **AXMEDIS Overview**
 - ◆ What is AXMEDIS
 - ◆ Cross Media Content, AXMEDIS Editor
 - ◆ AXMEDIS Major Tools, Players
- **AXMEDIS Automated Content production**
 - ◆ AXMEDIS CP GRID solution
 - ◆ Automated Content production
 - ◆ AXMEDIS Content Processing Tools
- **Digital Rights Management and Protection**
- **Applications and Demonstrators**
 - ◆ TISCALI, EUTELSAT, ILABS,
 - ◆ P2P Content Sharing
 - ◆ VARIAZIONI Project
 - ◆ Production on Demand
 - ◆ DRM and Interoperability
 - ◆ SIAE Trial, video
- **AXMEDIS Framework how to...**

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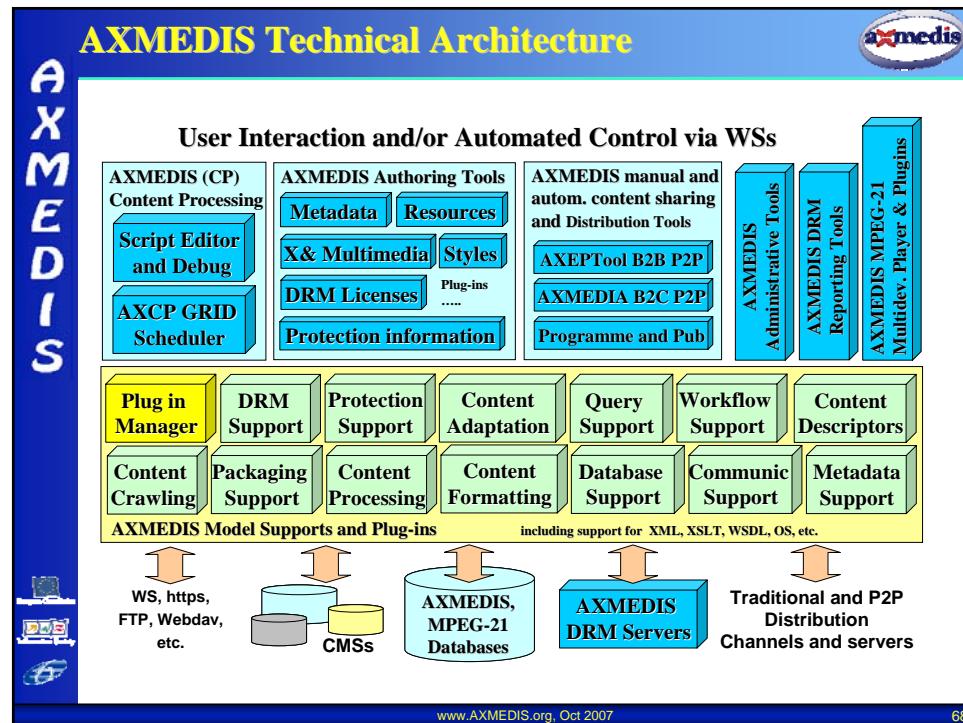
A X M E D I S

AUTOMATING the BACKOFFICE

- **Lower costs of and enabling**
 - ◆ content gathering, transcoding/monitoring platform, production of content on demand with AXCP
 - ◆ integrate cross media content and automatically managing rights for complex multimedia products
 - ◆ production, B2B distribution, promotion via P2P B2B
- **New forms of content and unexploited content:**
 - ◆ Making business with cross media content, integrating HTML, SMIL, document, video, etc., no possible up to now
 - ◆ Exploiting the content "long tail"
- **Interoperability, convergence of media**
 - ◆ interoperability of content and DRM, Multi-channel distribution
 - ◆ access to the same content on several platforms, devices and locations
 - ◆ greater level of security, control of content usage in all channels B2B2C
- **DRM, creation new business models**
 - ◆ different business models on the same channel may be used
 - ◆ adapting the distribution channel to the users needs and would
 - ◆ Access to detailed reporting on the exploited rights
- **Distribute content with**
 - ◆ Any B2C: Internet, STB, broadcasting, Mobile, kiosks, pda, etc.
 - ◆ P2P to Consumers with the support of DRM

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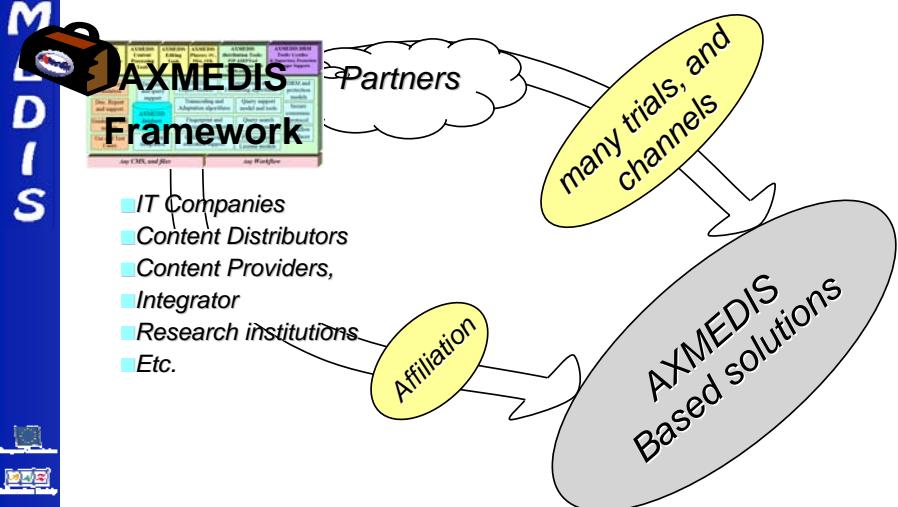
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Use of AXMEDIS Framework



- **Exploitation of AXMEDIS research and innovation**



IT Companies
Content Distributors
Content Providers,
Integrator
Research institutions
Etc.

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Affiliation to the AXMEDIS



- **You can become affiliated with AXMEDIS.**
 The affiliation provides access to
 - ◆ a large amount of information and knowledge
 - ◆ full source code of the AXMEDIS Framework
 - ◆ Training and workshops
- The benefits of the affiliation include the possibility of using the AXMEDIS technology and tools (customize them from source code), for your business without limitations
- The affiliation can be formalized via the affiliation agreement, you can find information on the flyers and on the DVD and on the portal.
- The affiliation has a small annual fee that can be covered in money or by value offering in change contributions to the AXMEDIS Framework for the community.

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AXMEDIS 2007 Conference



- **Venue:** Universitat Politècnica de Catalunya, Barcelona, Spain
 - ◆ UPC Campus Nord, Jordi Girona, 1-3, E-08034 Barcelona, Spain
- **Date:** 28th – 30th November 2007
- **Web:** www.axmedis.org/axmedis2007/
- **Registration Open**
- **Programme includes**
 - ◆ Cutting edge scientific and technical developments
 - ◆ Latest possibilities, and applications in industrials and research
 - ◆ Future trends, impacts and exploitations
 - ◆ Workshops, Panels, Posters
- **Key topics include**
 - ◆ Cross-media and digital-media content production, processing, management, standards, representations, sharing, protection and rights management interoperability



**Universitat Politècnica de Catalunya
Barcelona**
november 28
to 30
2001

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Instructions for final submissions





**3rd International Conference
on Automated Production of Cross Media Content
For Multi-channel Distribution**



Contact Information



- **If you like to know more about the AXMEDIS framework and other AXMEDIS technologies and functionalities please do not hesitate to contact the project coordinator**
- **Prof. Paolo Nesi, Ph.D.**
*DISIT-DSI, Department of Systems and Informatics
Distributed Systems and Internet Technology Lab
University of Florence
Via S. Marta 3, 50139 Firenze, Italy
Email: nesi@dsi.unifi.it
Web: <http://www.AXMEDIS.org>*

