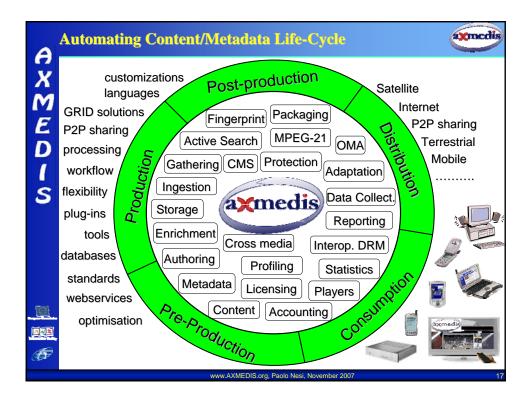
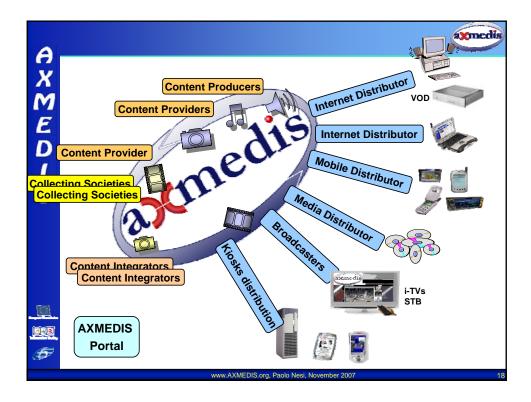
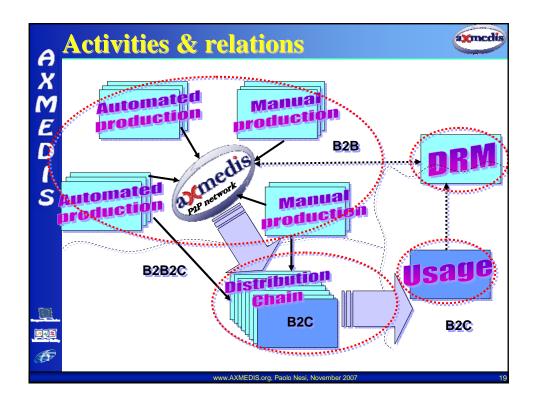
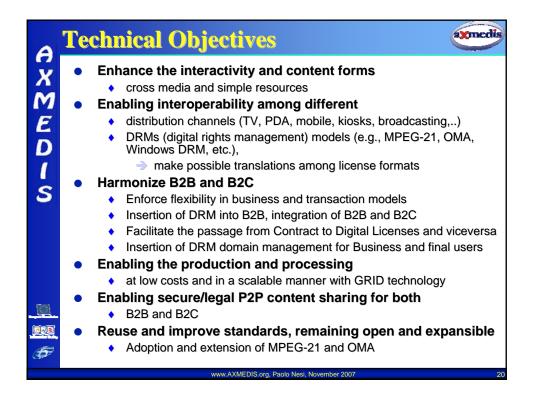


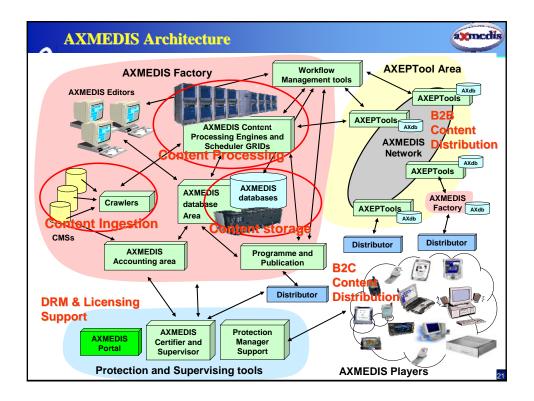
A	Technical Applications					
X M E	•	General content management and processing Multi-channel production and distribution: broadcasting, IP/Internet, WEB sites, P2P, mobile, PDA, IPTV, interactive TV and channels, etc.				
D	•	Multi-channel experience for customers				
 	•	Video on Demand (VOD), and production on demand solutions				
	•	Control of P2P content sharing and distribution, involving your customers in distribution (super- distribution)				
	•	Involve customers and final users in content production and social networking				
	٠	interoperable DRM (MPEG-21, OMA, etc.)				
ini F	•	different business models and/or transactions on the same distribution channels: pay per play, monthly rate, preview, renting, advertising, etc.				
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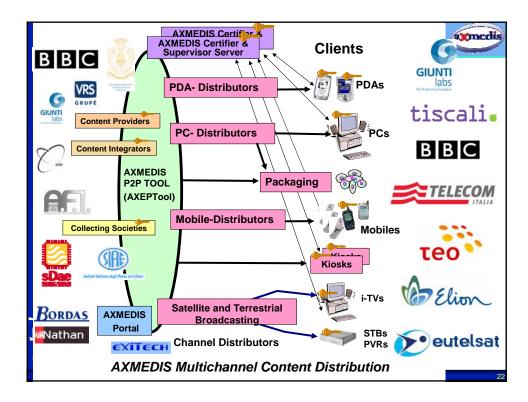


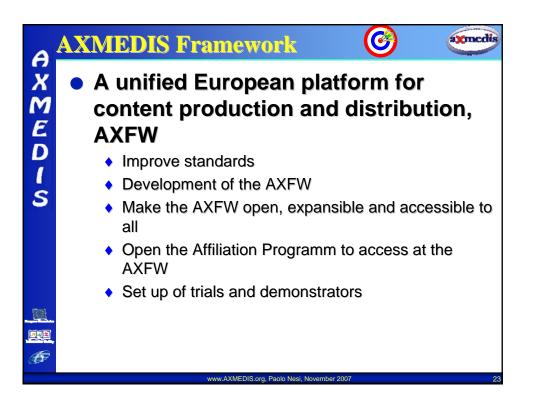


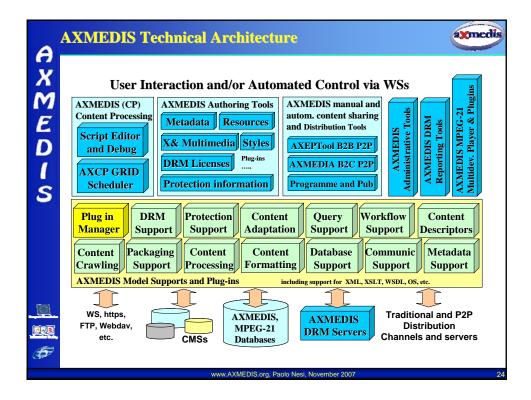


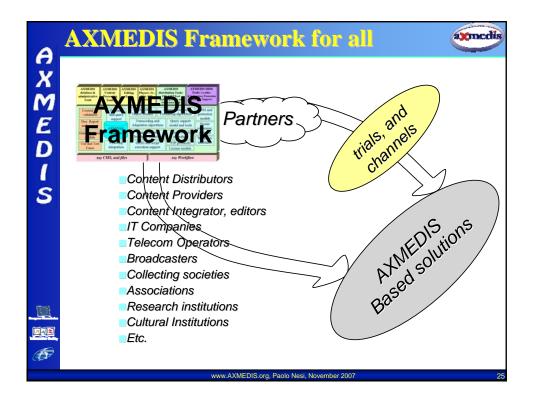


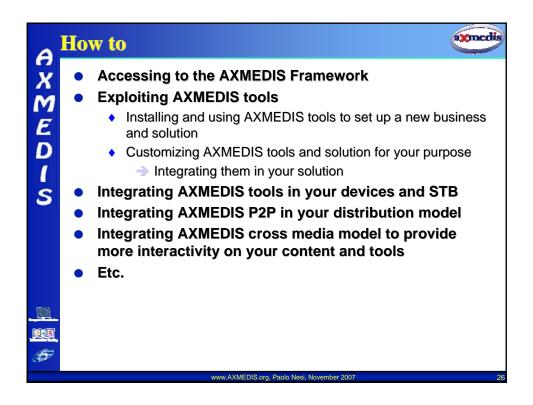




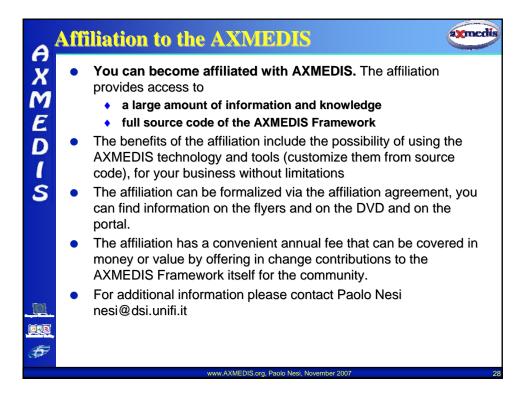


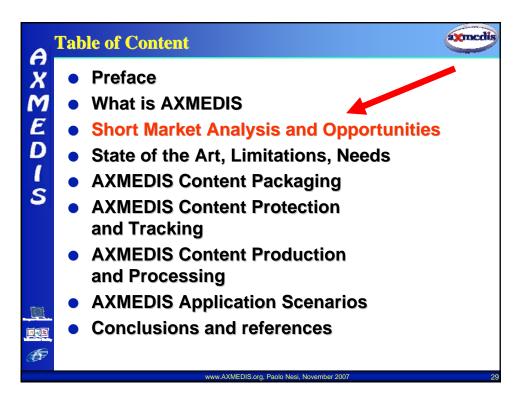


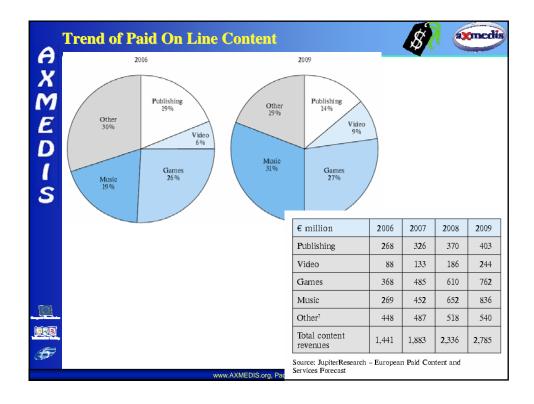


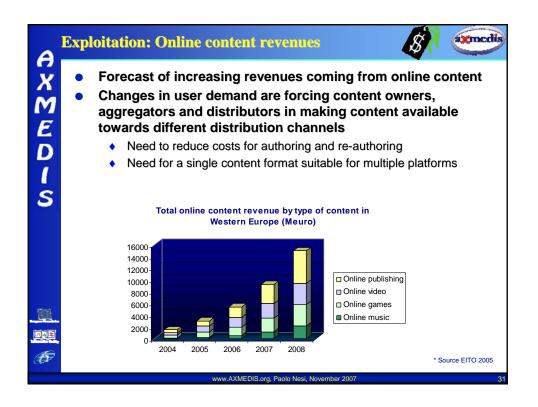


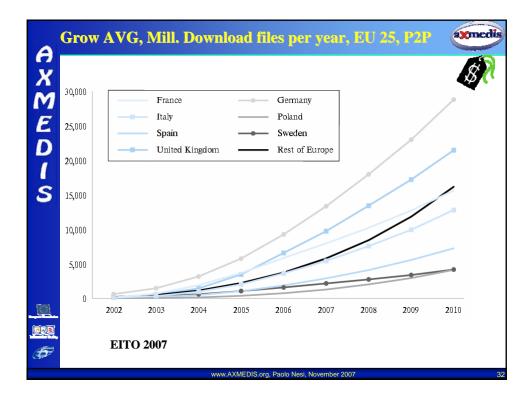


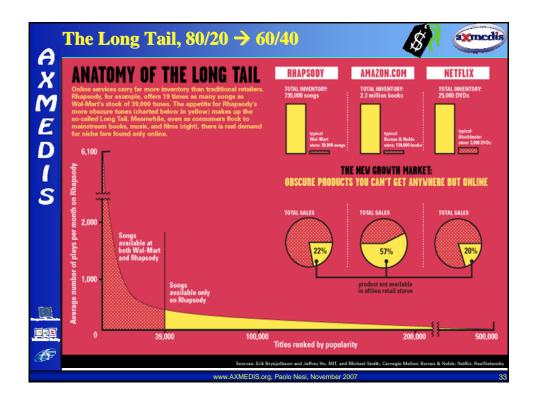


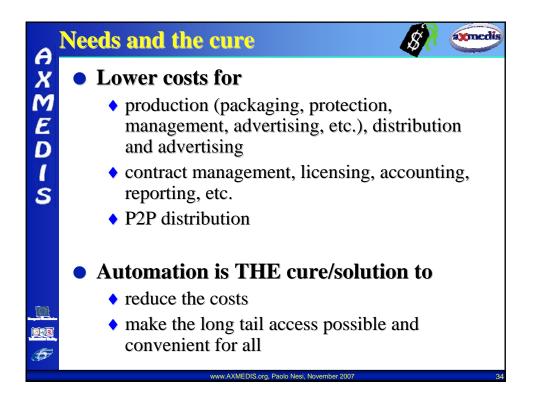


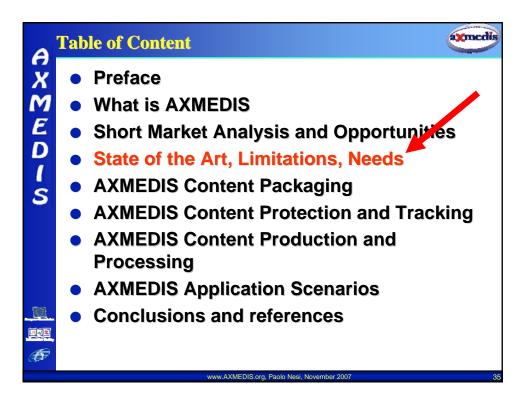






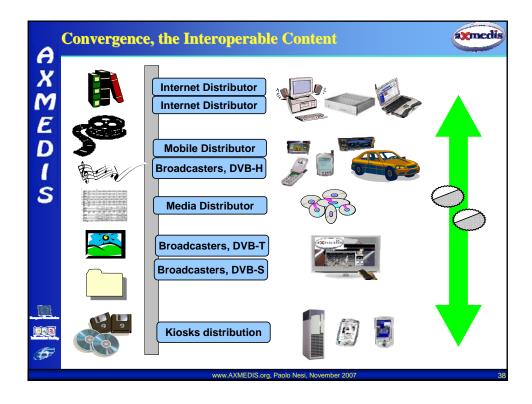


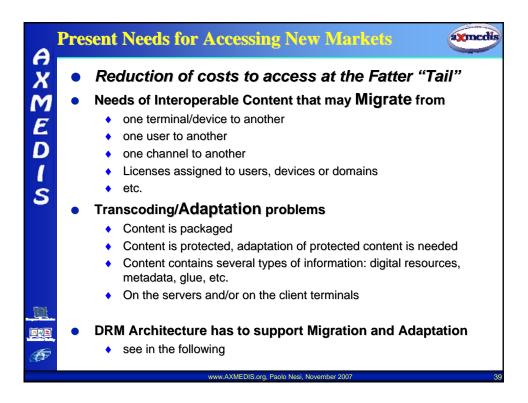


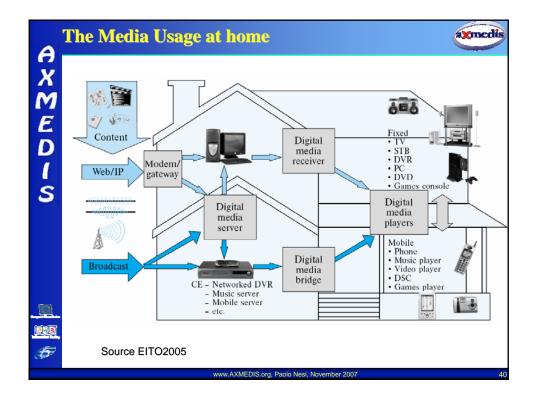


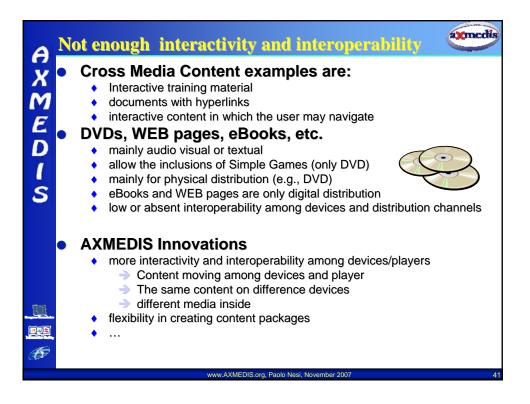


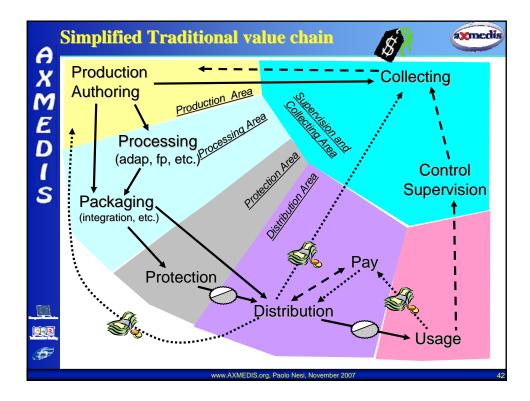


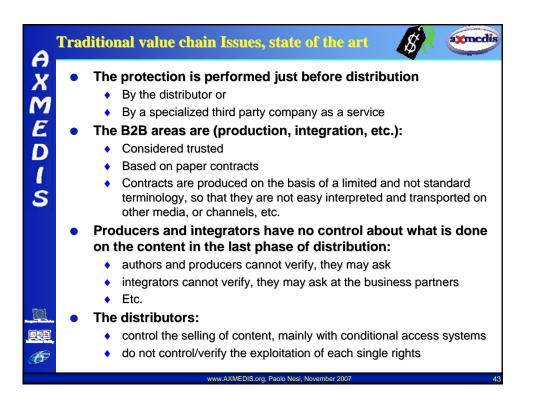




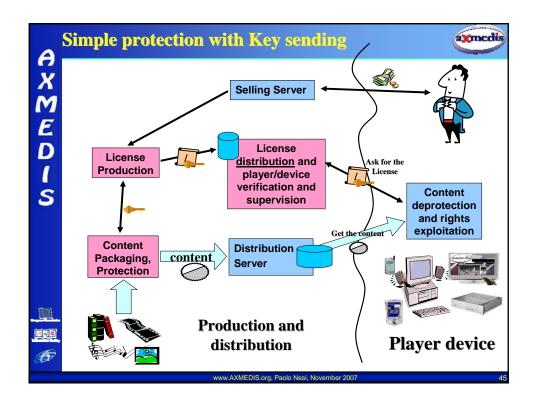








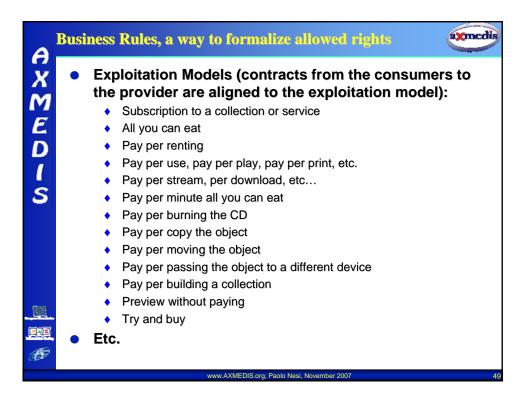




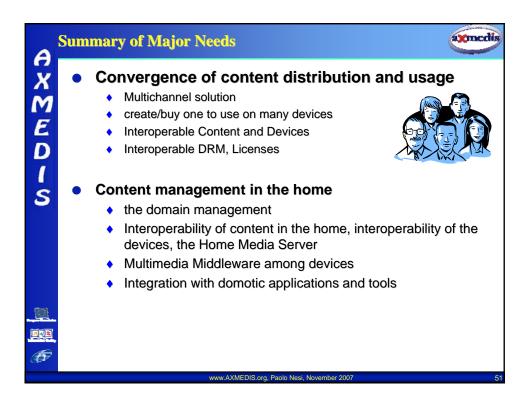
A Technologies and standards
 Technologies for content protection Microsoft Windows Media, DRM Apple I-Tune Media Commerce Suite of Real Network Intertrust Liquid Audio DMD secure Adobe And also the Conditional Access Systems: Nagravision, Irdeto, etc
 Standards on DRM OMA, Open Mobile Association MPEG-21, DI, DID, IPMP, REL, etc. XrML, Content Guard, related to MPEG-21

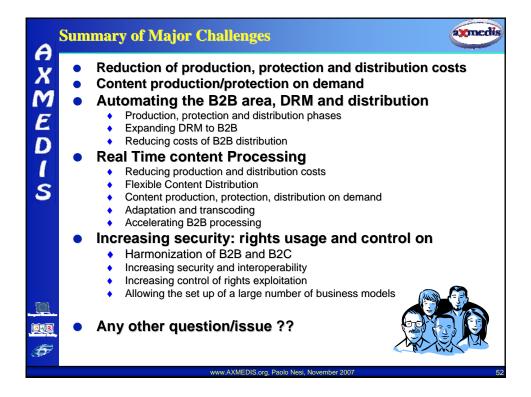
Business Models	Larger number of Business Models		
B2B DRM	B2B, B2C, B2B2C DRM solution		
Proprietary / Standard DRM and model	Standard DRM: MPEG-21, OMA, etc.		
Non interoperable DRM	Allowed Interoperable DRM: MPEG-21, OMA, etc.		
Fixed/Flexible Protection Model	Any Protection Model, key, algorithms, etc.		
Separation among Content and license	Separation among Content and license		
Signed Content Header	Signed Content AXINFO, any Metadata		
Channel distribution	Multichannel with the same license		
Players and Devices	Players and Devices: PC MS-Windows, PDA Window Mobile, STB, Linux OS, Apple MAC, Mobiles		
License Proprietary: number of rights	Licenses MPEG-21 REL: Expandable dictionary, Any type of rights, Licenses OMA		
Authentication of Player	Authentication of device, user, domain, etc.		
Revocation per Player	Revocation per device, user, etc,		
Revocation per license	Revocation per license		
digital resources that can be included and protected	Any digital format, of any type		
Media content	Single audio, video, image, doc, and Cross media: SMIL, HTML, SVG, MPEG-4,		
Customizable Tools	Customizable Tools: servers and player clients		

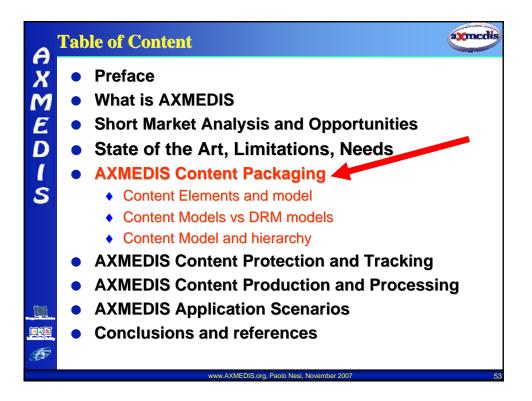
 DRM is typically added only in the Integration or distribution phases DRM is seen mainly for B2C Added by distributors Owners demand to producers Producers demand to integrators or distributors Some Distributors demand to carriers DRM is tuned for a specific distribution channel and media Windows Media DRM for PC/internet, etc. OMA DRM for Mobile Etc. No convergence no interoperability of content No possibility of assigning a License to a Domain Partially solved producing content in several formats for several channels and terminals, very complex and expensive Large Limitations for the final users Limitations for the business and markets 	a^{Lin}	nitations of Present DRM solutions
 Added by distributors Owners demand to producers Producers demand to integrators or distributors Some Distributors demand to carriers DRM is tuned for a specific distribution channel and media Windows Media DRM for PC/internet, etc. OMA DRM for Mobile Etc. No convergence no interoperability of content No possibility of assigning a License to a Domain Partially solved producing content in several formats for several channels and terminals, very complex and expensive Large Limitations for the final users 		
 No convergence no interoperability of content No possibility of assigning a License to a Domain Partially solved producing content in several formats for several channels and terminals, very complex and expensive Large Limitations for the final users 	E D	 DRM is seen mainly for B2C Added by distributors Owners demand to producers Producers demand to integrators or distributors Some Distributors demand to carriers DRM is tuned for a specific distribution channel and media Windows Media DRM for PC/internet, etc. OMA DRM for Mobile
	<u>1</u>	 No convergence no interoperability of content No possibility of assigning a License to a Domain Partially solved producing content in several formats for several channels and terminals, very complex and expensive Large Limitations for the final users

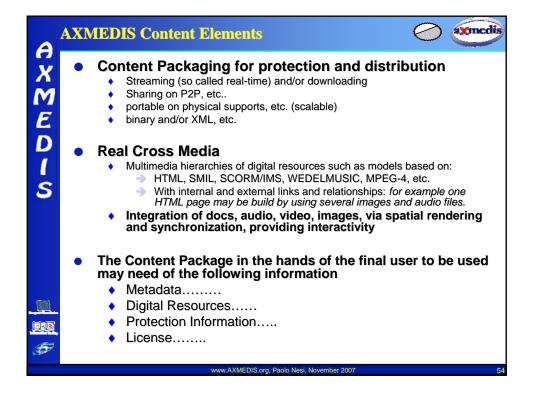


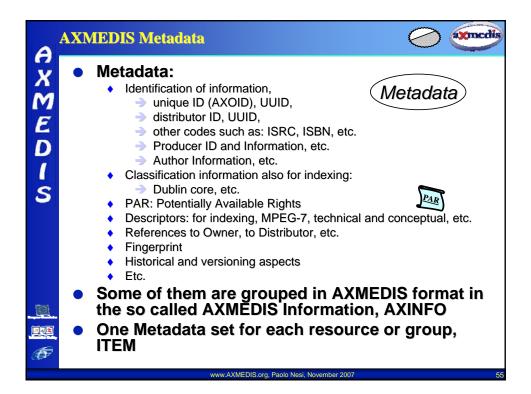
	B2B Rights Management
r X M E D I S	 Advantages of B2B DRM Automation of contract-based deals Assessing the Usage in the B2B Reducing costs of B2B promotion Allowing integration and composition of protected content Allowing content production on demand, no contracts signatures, immediate DRM processing Try and buy, try and use for business Free try for Business users Increasing the control, decreasing the risk
	 P2P distribution sharing of content lower costs to access content Lower costs to promote/distribute content Increment of accessible content
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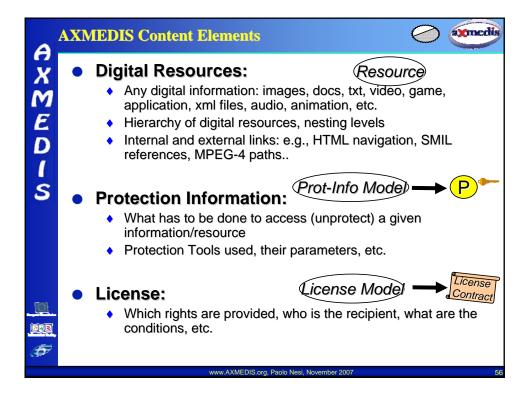


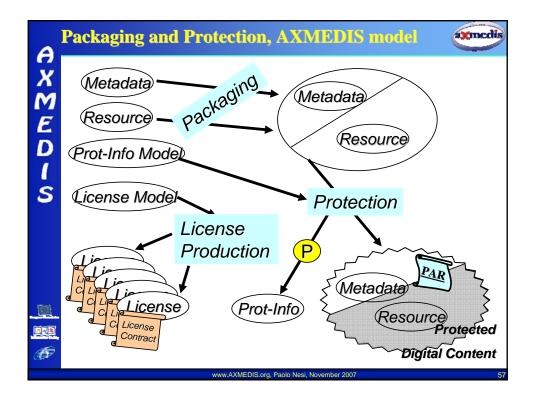


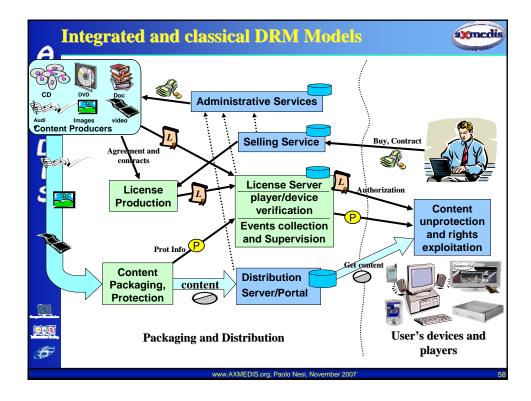


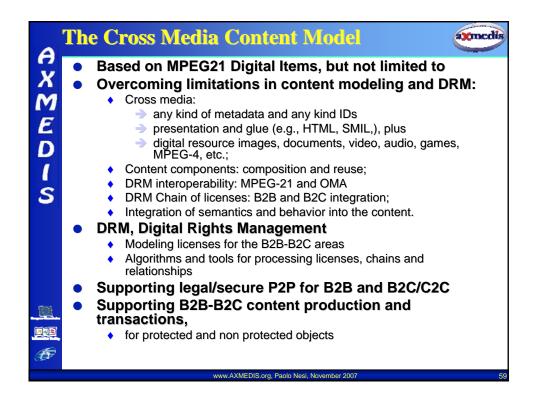


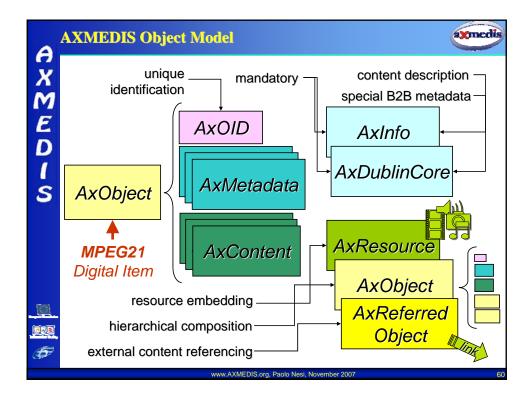


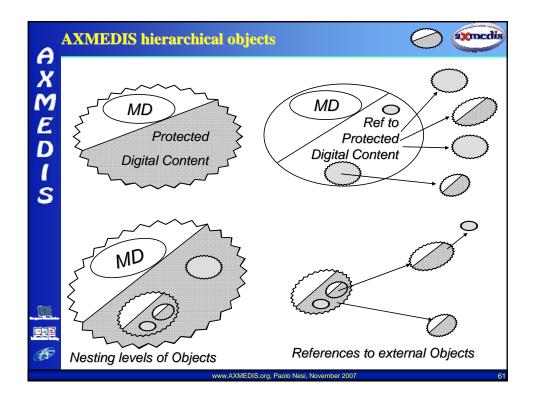


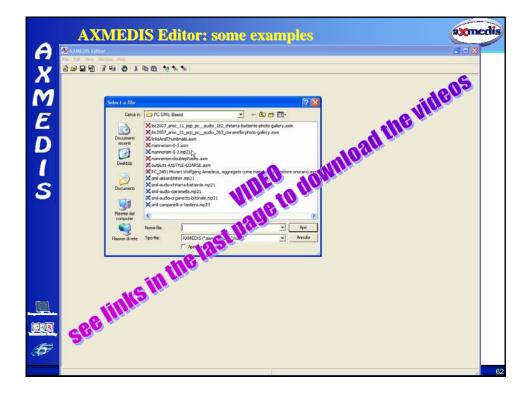


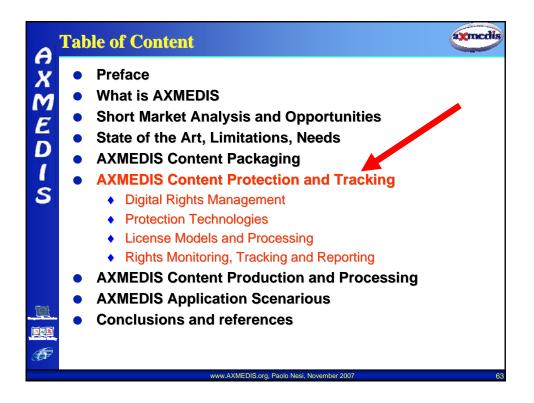


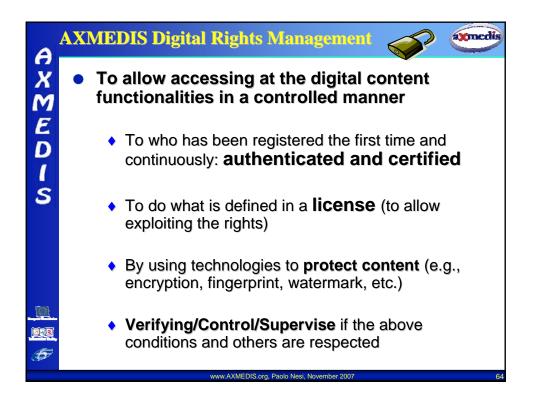


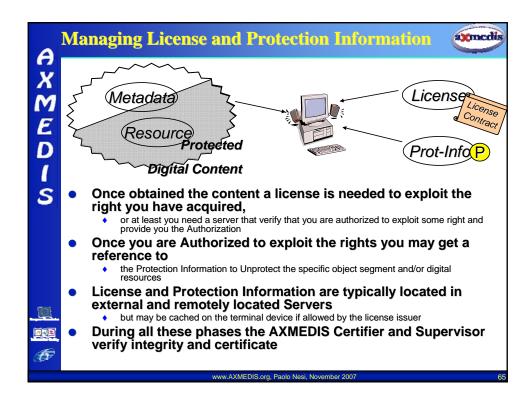


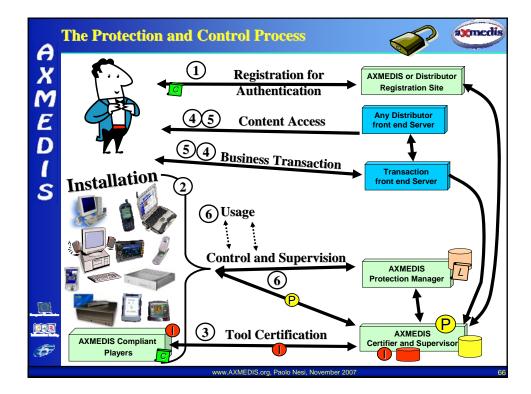


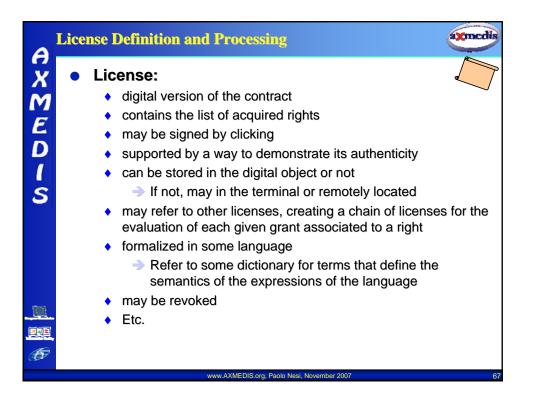


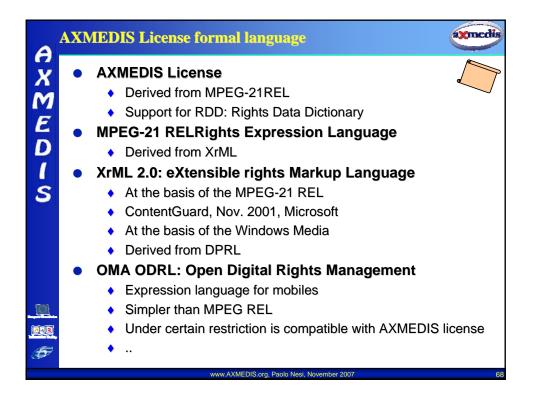


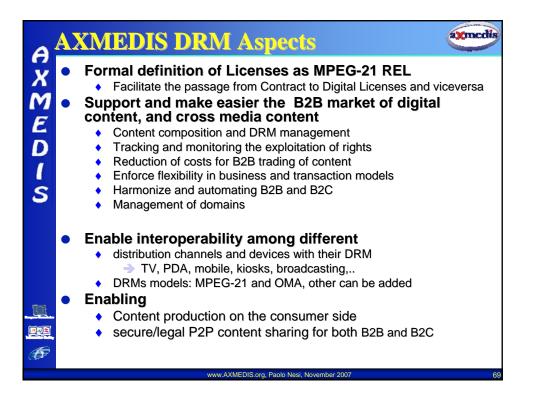


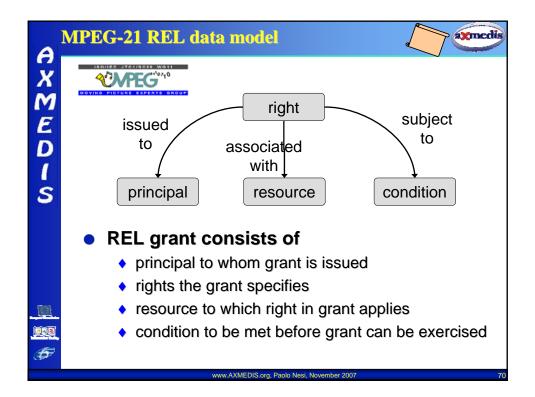


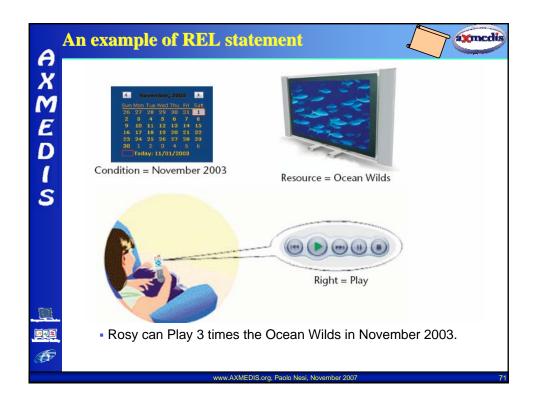




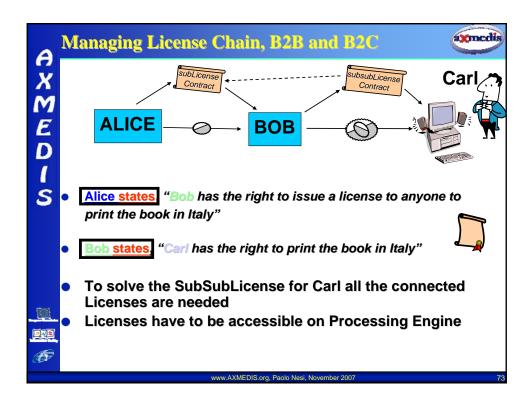


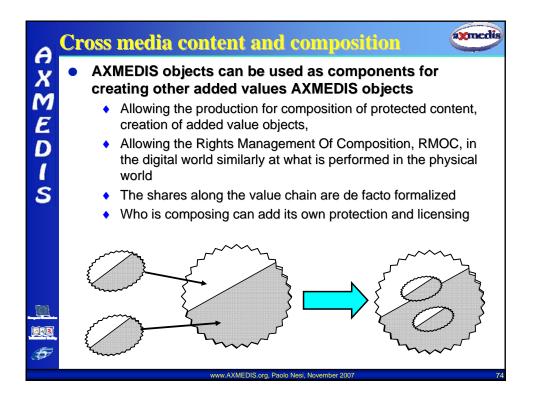


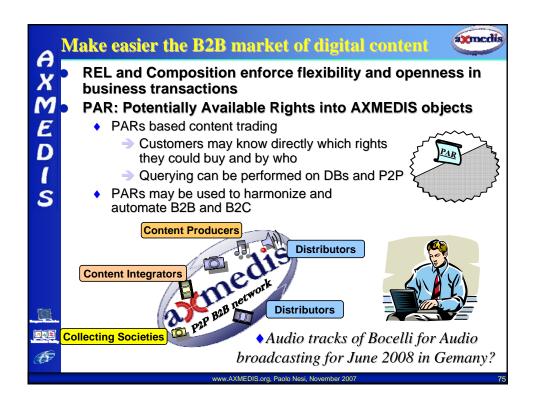


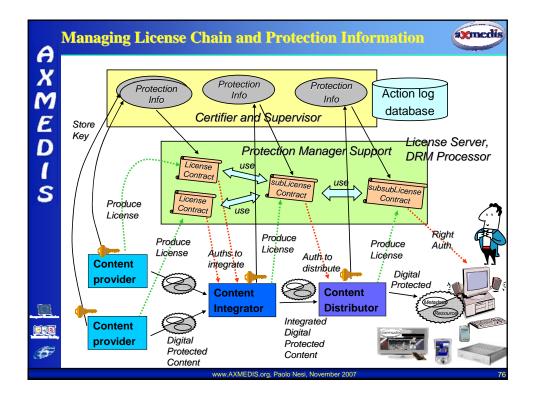


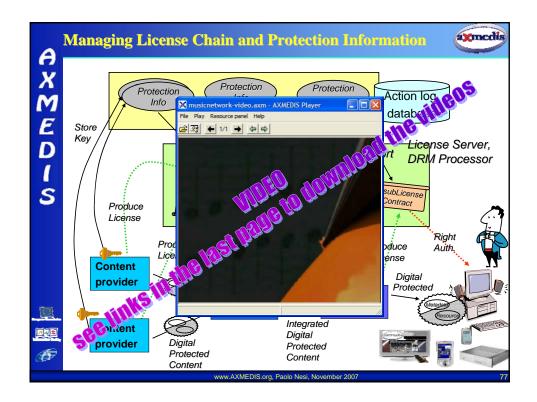
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	www.AXMEDIS.org, Paolo Nesi, November	2007	72

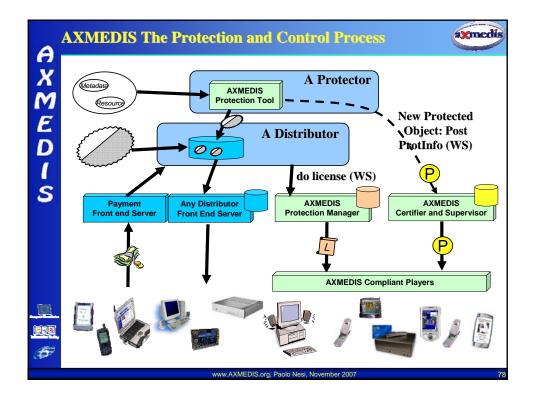


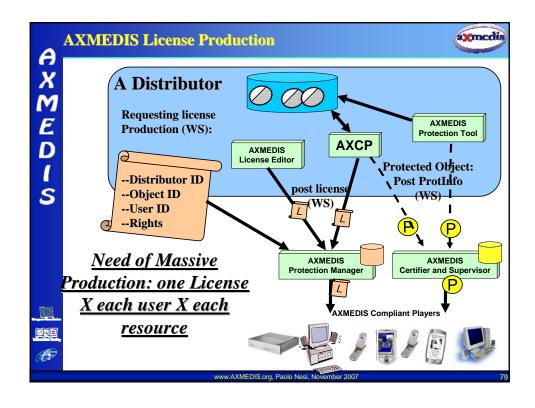


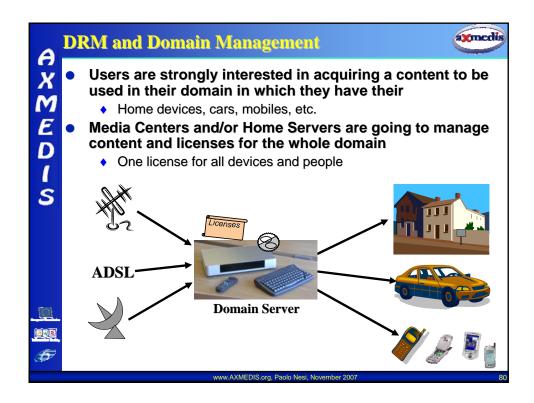


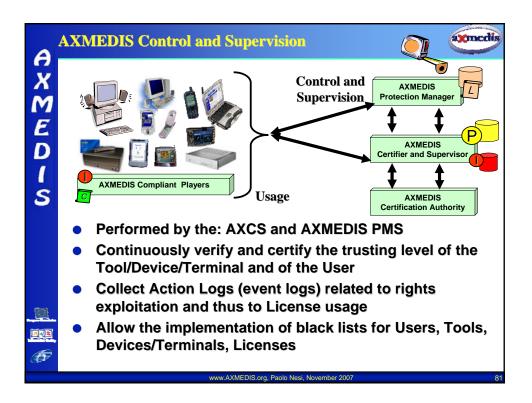


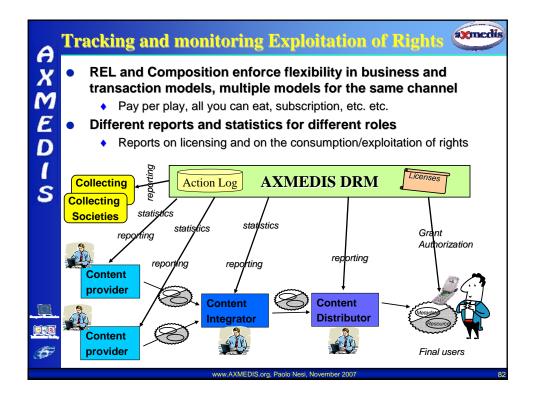


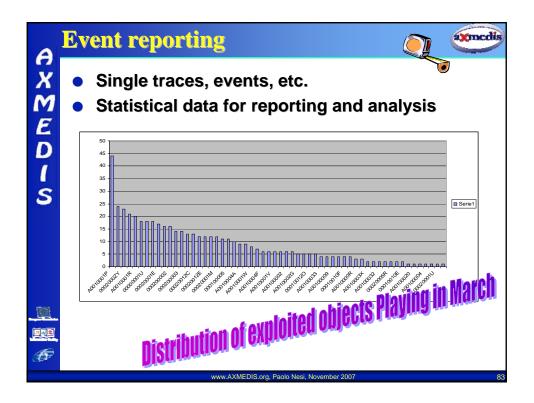


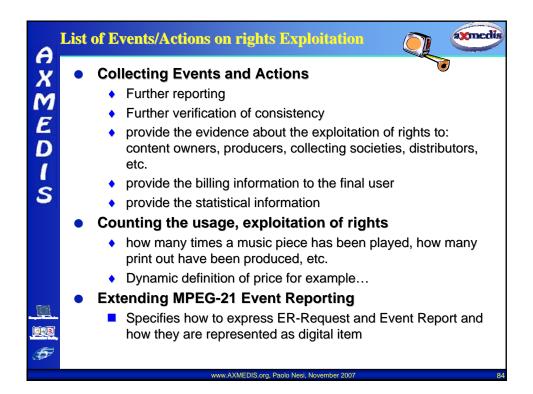


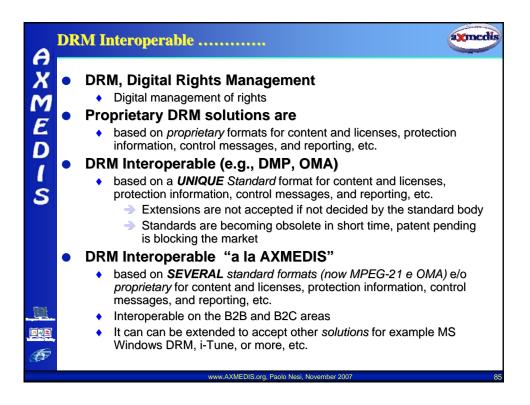




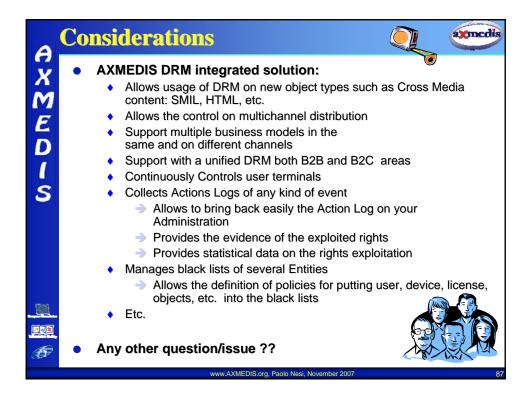




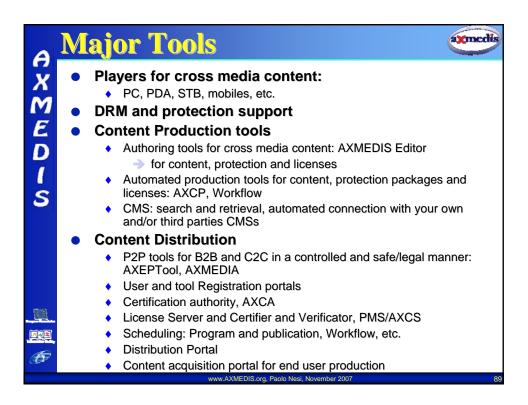


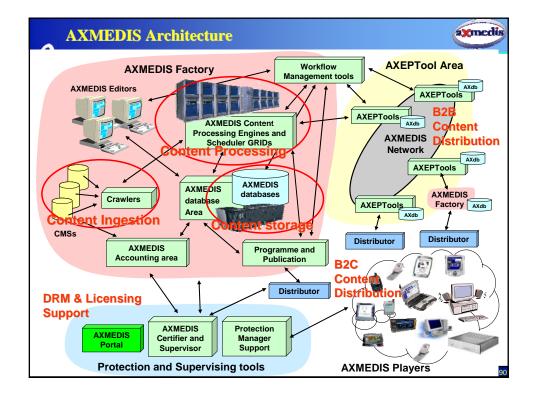


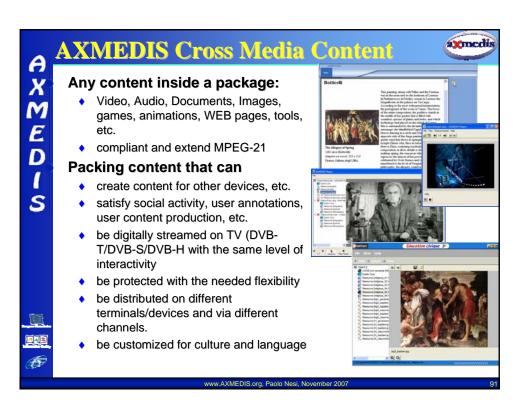
A Considerations
 AXMEDIS License: Formalized in MPEG-21 REL Can be used for formalising both B2B and B2C Can be interoperable with OMA licenses Can addresses single users, devices or domains Can be produced Manually with AXMEDIS DPM Editor
 Remotely by using a WEB service Massively and remotely by using AXMEDIS content processing tools Processed in the chain of licenses by the AXMEDIS Protection Manager Support as License Server/DRM Processor
 Can be included into AXMEDIS objects or can be provided independently Can be cached or not on the client terminal Can formalize a large set of business models Etc.
Any other question/issue ?? www.AXMEDIS.org, Paolo Nesi, November 2007



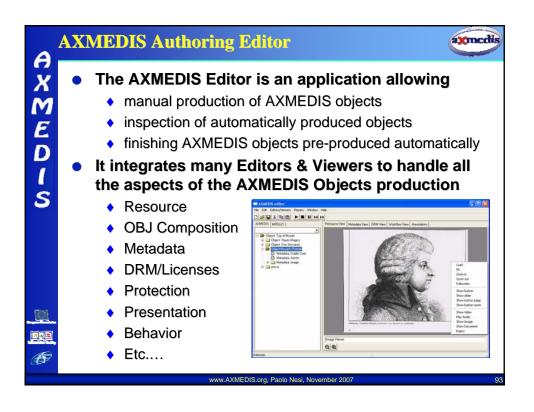
a	Fab	le of Content
X	•	Preface
Â	•	What is AXMEDIS
	•	Short Market Analysis and Opportunities
E D	•	State of the Art, Limitations, Needs
D	•	AXMEDIS Content Packaging
	•	AXMEDIS Content Protection and Tracking
S	•	AXMEDIS Content Production and Processing
		 AXMEDIS Editors, Authoring
		AXMEDIS players
		 Automated AXMEDIS Content Processing and Production
		 Multichannel Back-Office Management
		 Production of Content on Demand
	٠	AXMEDIS Application Scenarios
	•	Conclusions and references
Ð		
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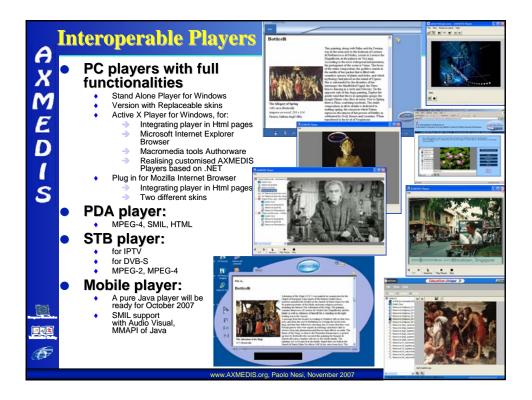


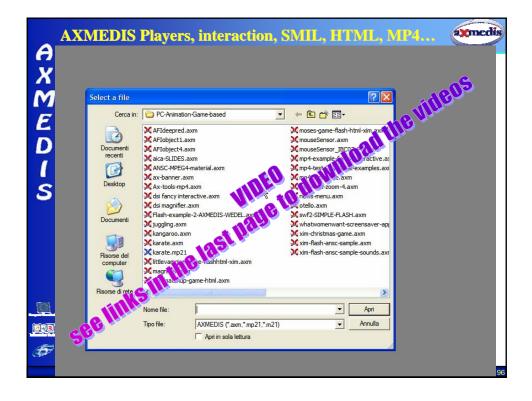






	MEDIS Client Tools
с х М Е D	 AXMEDIS/MPEG-21 Model plus a set of players Audio and video players: almost any format Document viewers: PDF, HTML, etc. Image viewers: any format Cross media: MPEG-4, SMIL player, HTML, etc Etc.
1 S	 AXInfo, Dublin Core, etc. Any descriptors, etc.
•	 Possible integration AXMEDIS AXOM core module in any player The access to the AXMEDIS Framework allows you to create in short time your customized AXMEDIS compatible player in many platforms based on AXOM: Windows Linux PDA, Windows Mobile 5 Etc.
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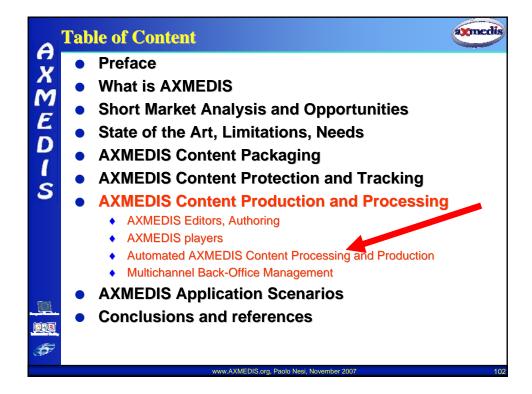


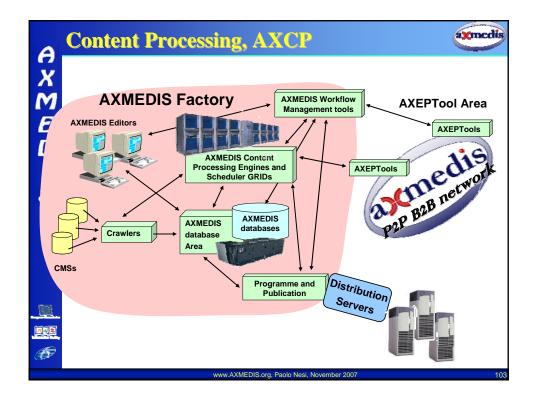


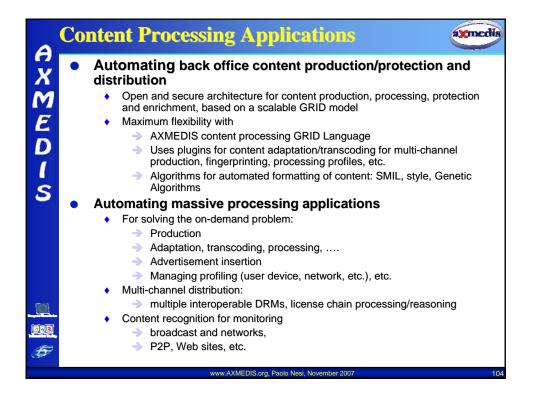


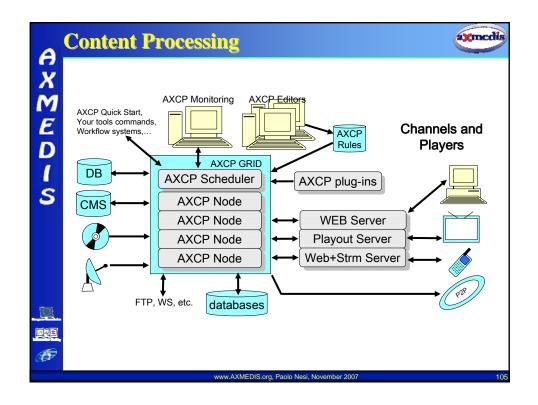


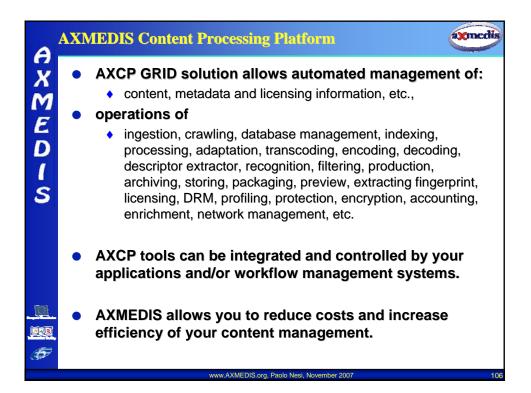


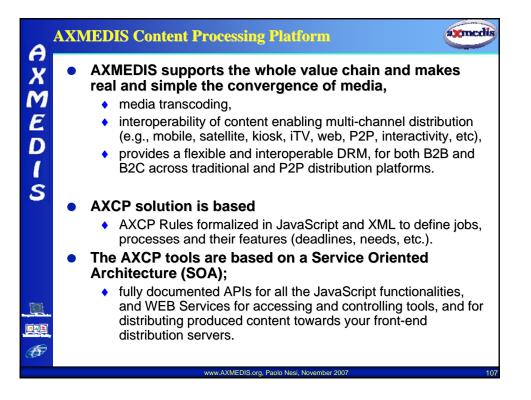


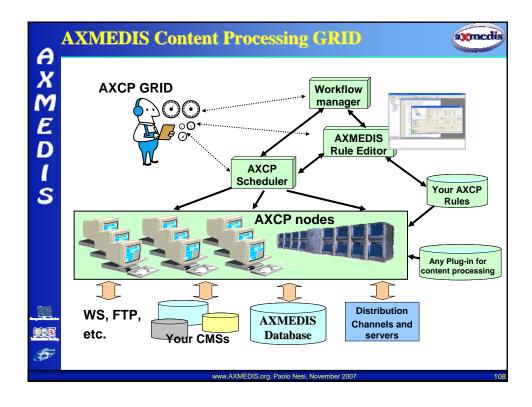




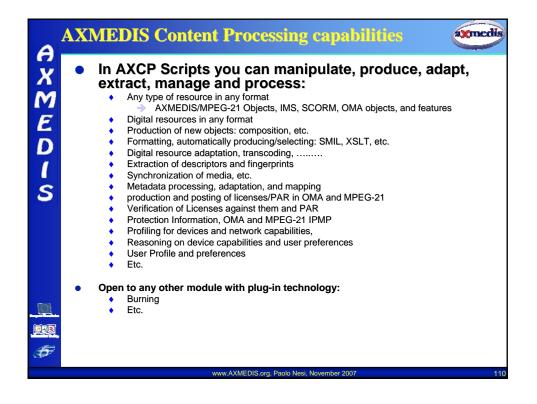


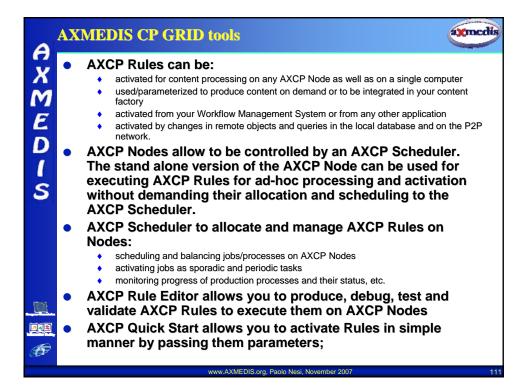


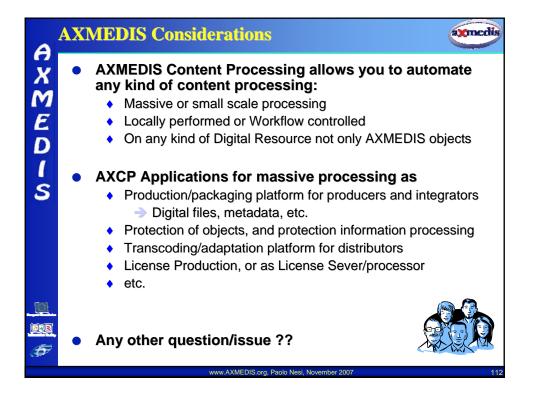


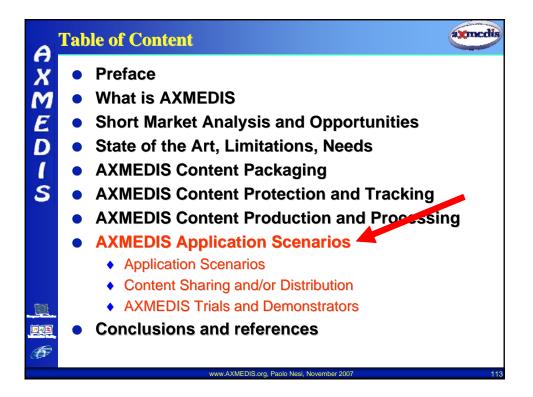


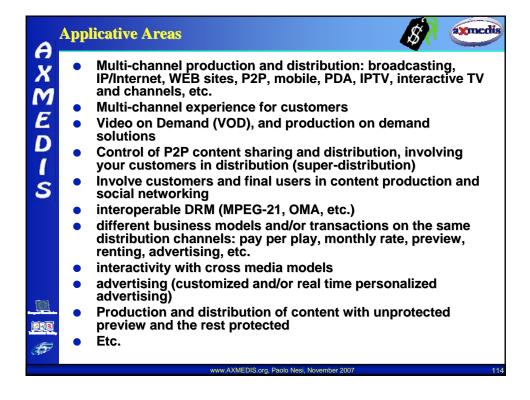
Δ	Enabling massive content production and processing	axmedis
AXDEDIS	 AXMEDIS GRID language and tools for Automated Content Ingestion and Gathering Automated Content Query and Retrieval Automated Content Load and Storage: databases and files Automated Content and Metadata Processing, enrichment Automated Content and Data processing Automated Content Filtering and Repurposing Automated Content Composition, Formatting Automated Content Protection and Licensing 	
	 Automated Content Publication/Download on/from: Any channel including P2P Network Automated Content Distribution Automated Profiles management and processing Automated Production of Content on Demand 	
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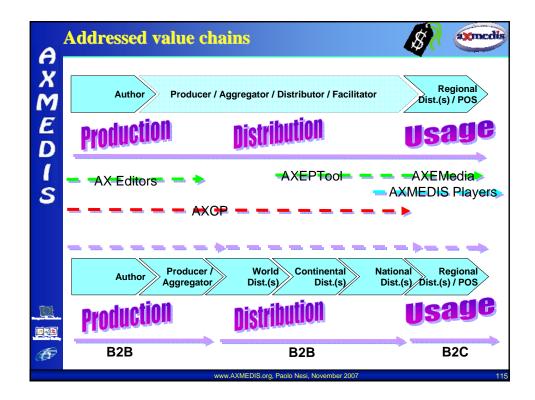




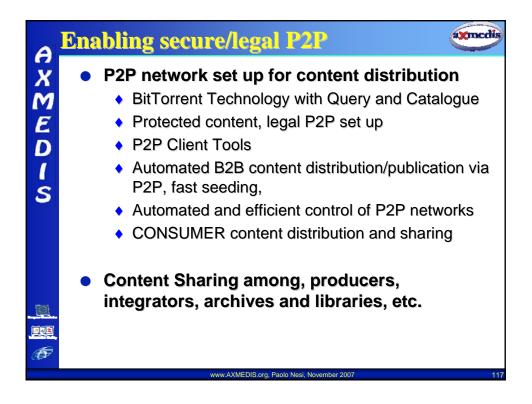


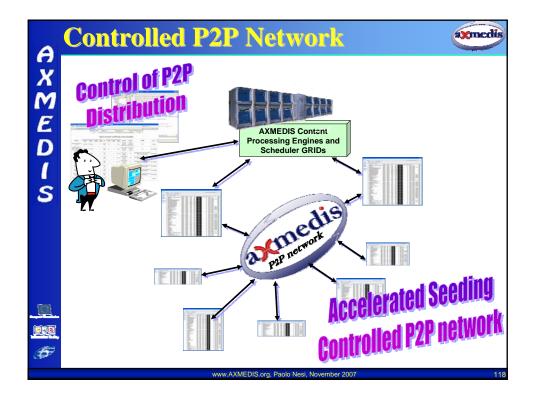


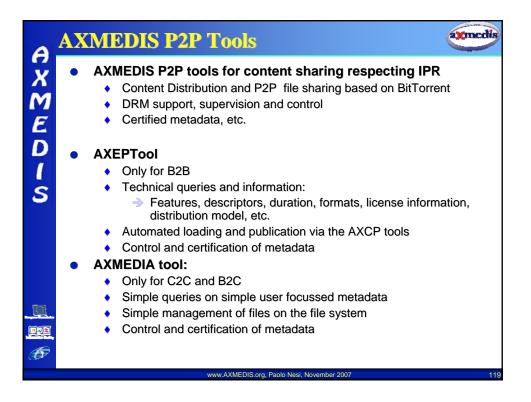


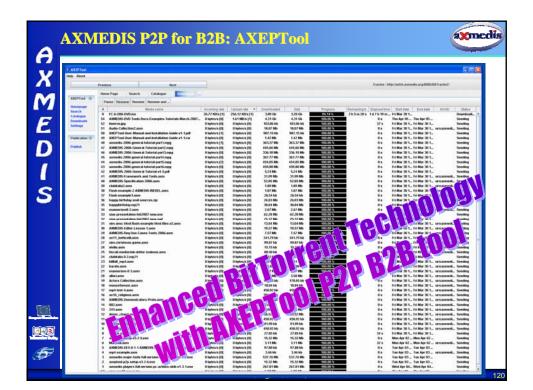


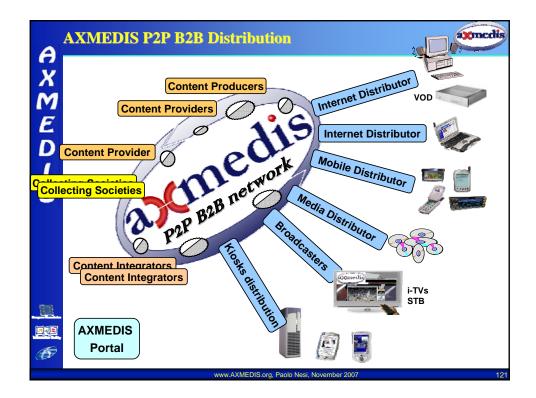
Applications and scenarious
 In most of the cases there is: Usage of the AXMEDIS Editors and Players Massive usage of the AXCP GRID for managing back office issues, defining specific scripts for: Automated content production and adaptation (MPEG-21, OMA, etc.) Automated creation of licenses (MPEG-21, OMA, etc.) Automated regeneration of new versions of the objects Automated object acquisition and posting on DataBases Support of the AXMEDIS PMS and AXCS for the DRM aspects Support of the CAMART and All for collecting reporting data Usage of the AXMEDIS Editors and Players Front ends for selling and distributing of the Distributors involved so that to maintain their plate and relationships with their customers
 In some cases there is the usage of: The P2P tools, for B2B and B2C2C Some specific tools for content posting on the databases Some specific player tools for final users Some specific tools for Home and Factory Domain Management Workflow support

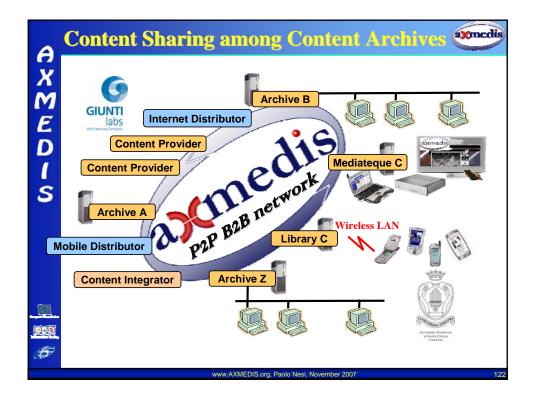


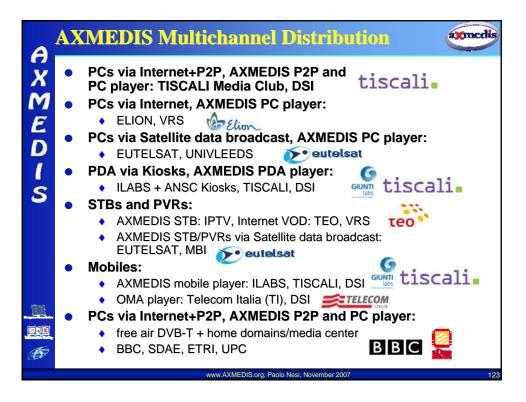


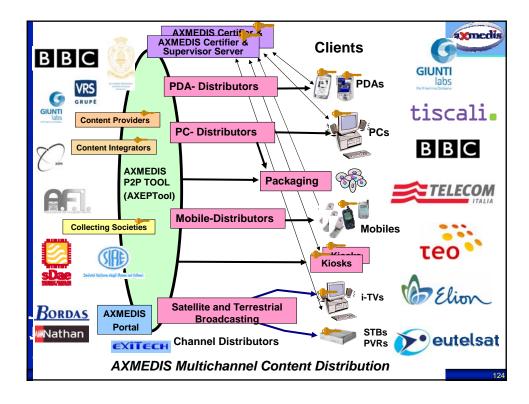


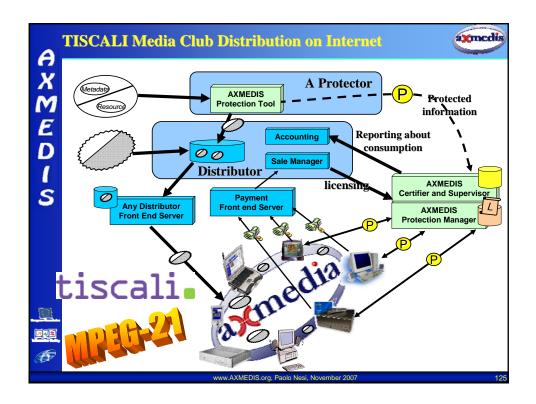




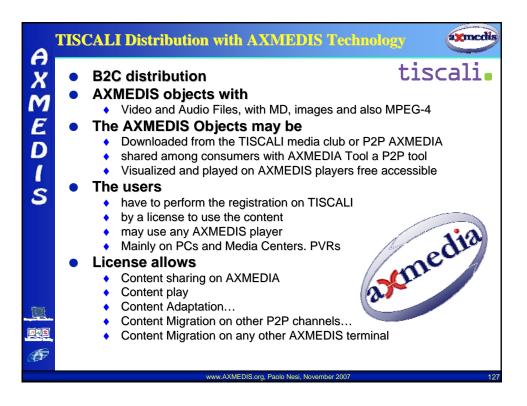




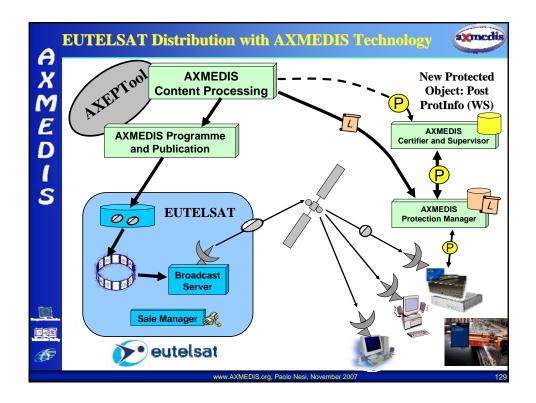


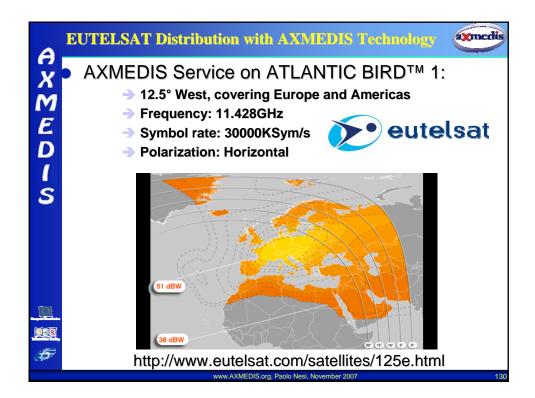


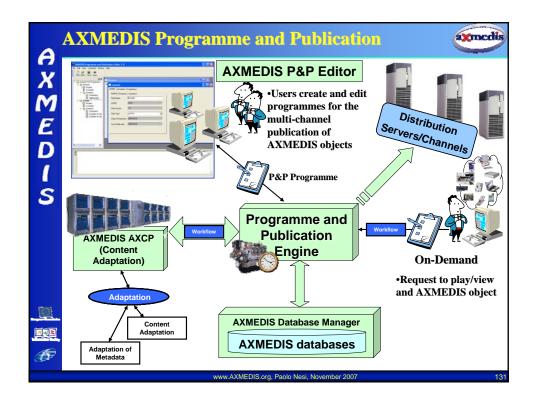


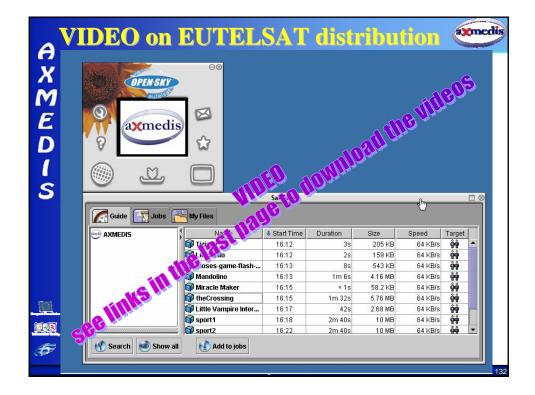


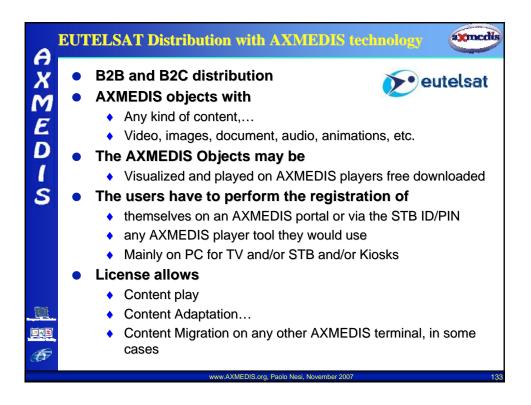
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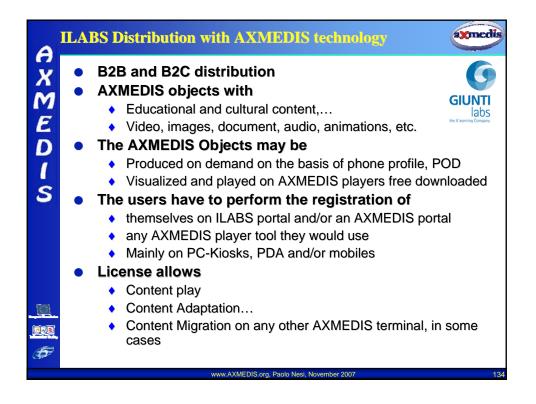


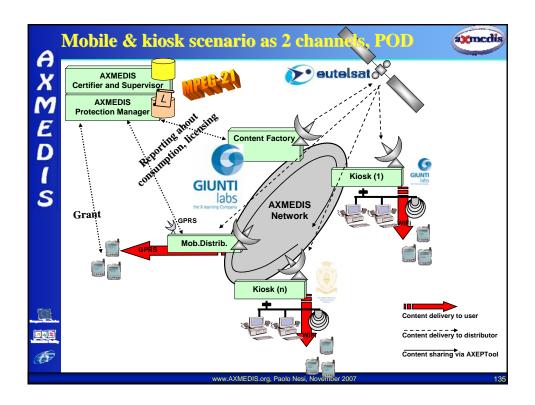


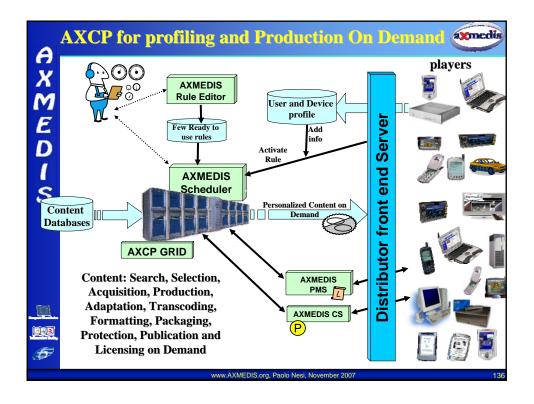












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