



CBI
Ministry of Foreign Affairs

IT trends in the EU



SOFTWARE



Software and ITO

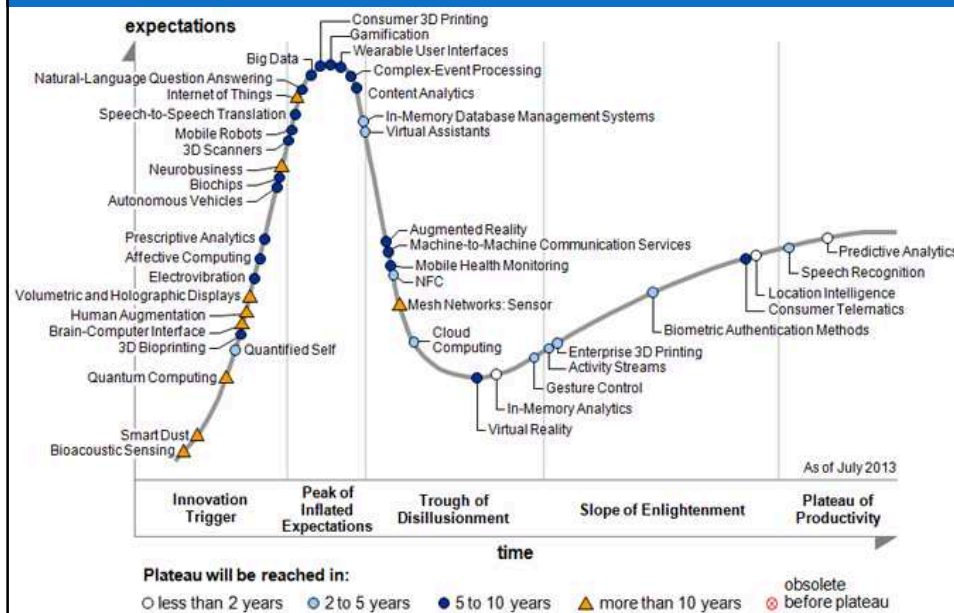
- Economic crisis: no growth of IT spending in the EU
- **Cloud computing**
- **Mobile applications**
- Social application
- **Big data**
- Information security
- Internet of Things
- EU: 30% of total – global - IT spending (largest: Germany, UK, France)
- Companies want to deal with a local vendor



Software products

Global market for finished software products (based on 2011 figures, assuming a 6,4% CAGR)	Yearly (Billion Euros)			
	2011	2012	2013	2014
Latin-America	40 SaaS: 0,43	43 SaaS: 0,53 24% growth	45	48
Main markets in Europe:				
UK		13,8	14,7	15,7
Germany		14,9	15,8	16,9
France		12,8	13,6	14,5
Benelux		7,4	7,8	8,3
Spain		8,1	8,6	9,2

Emerging Technologies Hype Cycle 2013



Cloud computing



The practice of using a network of remote servers hosted on the Internet to store, manage, and process data, rather than a local server or a personal computer.



Big Data

Volume	Velocity	Variety	Veracity
Data at rest Terabytes to exabytes of existing data to process	Data in motion Streaming data, milliseconds to seconds to respond	Data in many forms Structured, unstructured, text and multimedia	Data in doubt Uncertainty due to data inconsistency and incompleteness, ambiguities, latency, deception and model approximations

... is the term for a collection of data sets so large and complex that it becomes difficult to process using on-hand database management tools or traditional data processing applications. The challenges include capture, curation, storage, search, sharing,



Internet of Things



... refers to uniquely identifiable objects and their virtual representations in an Internet-like structure.



Trade events

MANY



SOFTWARE SERVICES



Software services - ITO

- Price is important but not the first selection criteria
- Quality and access to people are the most important:
 - for instance, Germany was lacking around 88,000 employees with ICT skills in 2011 and 77% of the Austrian companies reported difficulties in recruiting talent in the technology field.
- Size does matter
- Privacy and IPP
- Near-shore is preferred
- Financial crisis:
 - ITO (software) sector growth around 3 %
 - Smaller projects
 - OPPORTUNITIES!



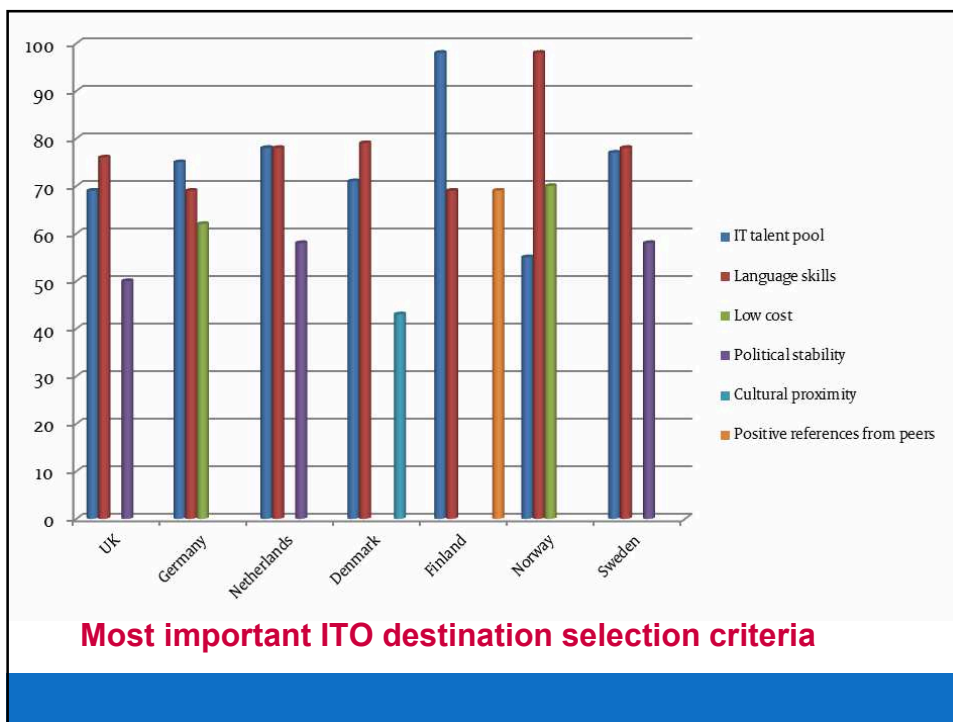
Software services - ITO

- **Specialist are welcome!**
 - what is a specialist in ITO service provider?
- Agile development is getting popular
- Small ITO projects: Elance, ODesk, Mechanical Turk
- 10% back-sourcing in 2012

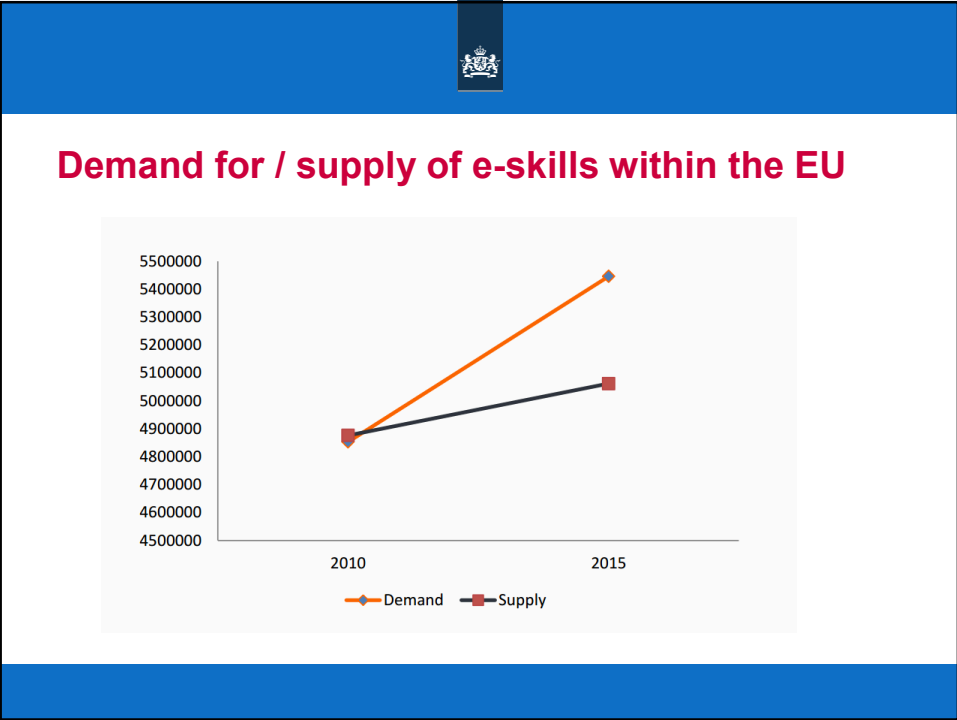
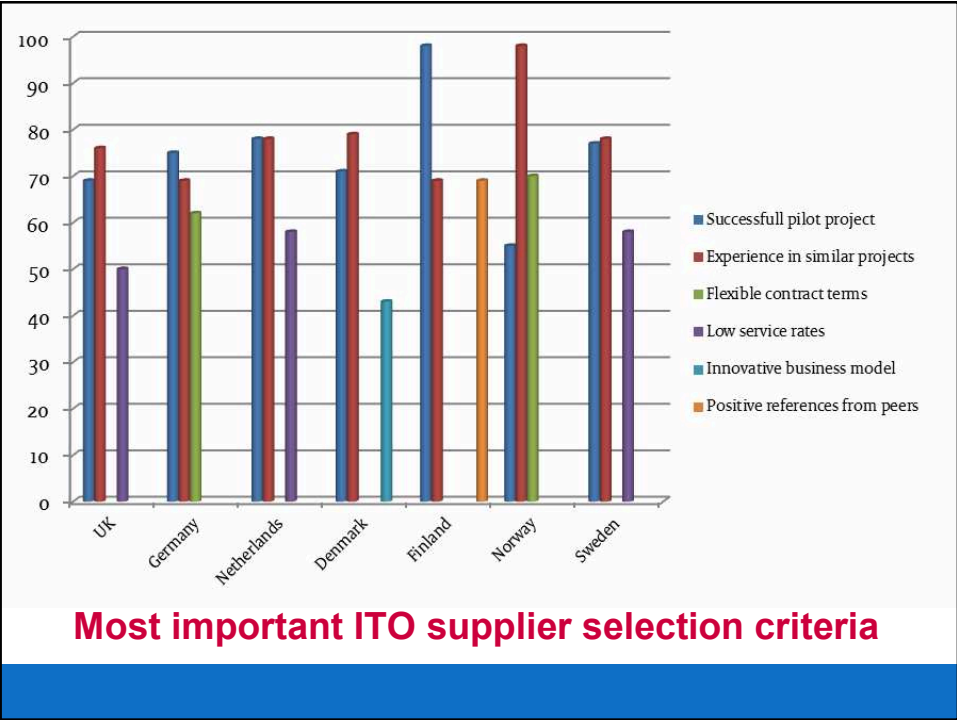


Quality models and certification

- It is like your university degree
- Most common ones in ITO
 - ISO 9001: 2008 – generic quality management system
 - ISO 27001 - information security
 - ISO 12207:2008 - software lifecycle process

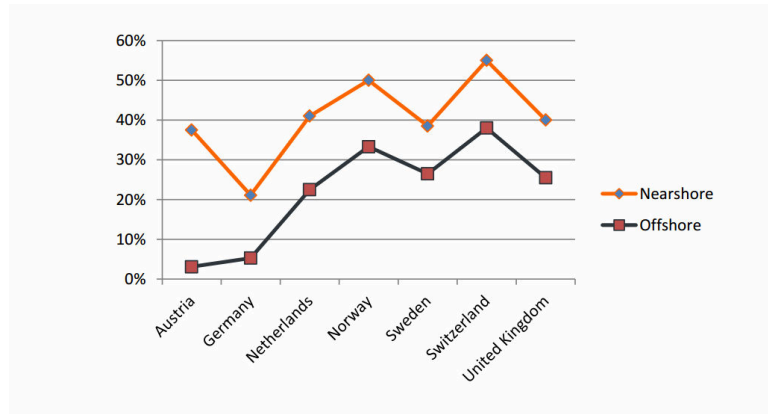


Most important ITO destination selection criteria





Where to outsource (2012 – 2013)



Mobile applications

- Everything goes mobile
- Emerging Mobile OS:
 - (Android, iOS, Windows mobile)
 - Mobile Firefox OS
 - Jolla
 - Mobile Ubuntu
 - Tizen (Samsung + Intel)
- A remote control for the Internet of Things



Global market for Software development (IT outsourcing) (based on 2011 figures, assuming a 3.1% CAGR)	Yearly (Billion Euros)			
	2011	2012	2013	2014
North America	84,5	87	90	93
Asia Pacific	77,6	80	83	85
Europe	66	68	70	72



Global market for Software development (IT outsourcing) (based on 2011 figures, assuming a 3.1% CAGR)	Yearly (Billion Euros)			
	2011	2012	2013	2014
Latin-America	42	43	44	46
Main markets in Europe:				
UK	11	11,5	11,9	12,2
Germany	12	12,4	12,8	13,2
France	10,3	10,6	11,0	11,3
Benelux	6	6,1	6,3	6,5
Spain	6,5	6,0	6,2	6,4



Trade events

MANY

for specialists

- Many vertical and horizontal focused events
- Few events for “generalists”

- CEBIT
- Mobile World Congress



Digital animation



Digital animation

- Convergence with gaming and audio visual production
- One of the fastest growing sub-sector (13%)
- Major markets: France, UK, Germany, Spain
- Government and EU support / tax breaks / funding
- Copyright, IPP
- Outsourcing: “**Everything is happening in Asia**” – mostly 2D and some 3D. Spain is also emerging as an outsourcing destination



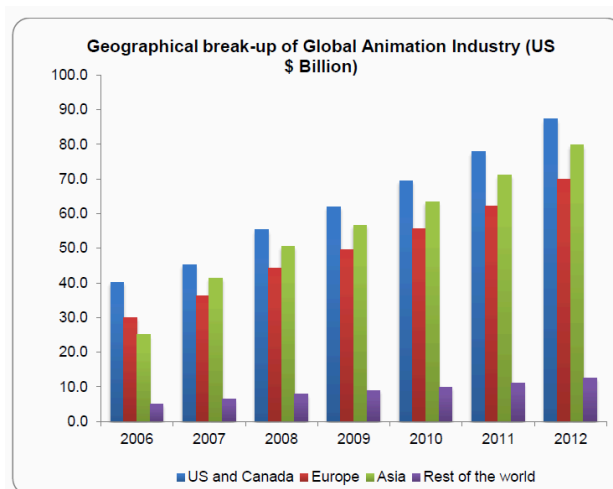
Drivers for outsourcing

- Lower costs
 - Hardware, software, staff, telecommunication
- Innovation in offshore project management
 - New workflow systems (e.g Digital Production Solutions')
 - Web based tools (PM, communication...)
- Global skills development online
- Electronic marketplaces (eLance, Odesk...)
- Tools over certification



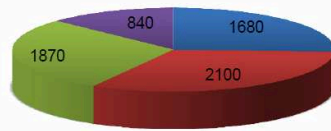
Large number of tools to master

- **2D:** CAS Animo, Toon Boom Digital Pro, Toon Boom Storyboard, TV Paint TVP Animation
- **3D:** Autodesk Maya, 3ds Max und Softimage XSI, Maxxon Cinema 4D, NewTek Lightwave, Side Effects Houdini
- **Compositing:** Adobe After Effects, Autodesk Toxic & Combustion, Eyeon Digital Fusion, The Foundry Nuke
- **Games:** Adobe CS5 Flash, Crytek CryEngine 3, iPhone Developer Kit, Natural Motion Endorphine & Morpheme, Unity Pro Game Development
- **Interface Design:** Arduino Boards, Meso Digital vvvv, Troikatronix Isadora, University of Genoa Eyes Web
- **Rendering:** Chaos Group V-Ray, Mental Images Mental Ray, Pixar Renderman, Solid Angle Arnold
- **Software Development:** Microsoft Visual Studio, The MathWorks Matlab, Xoreax IncrediBuild





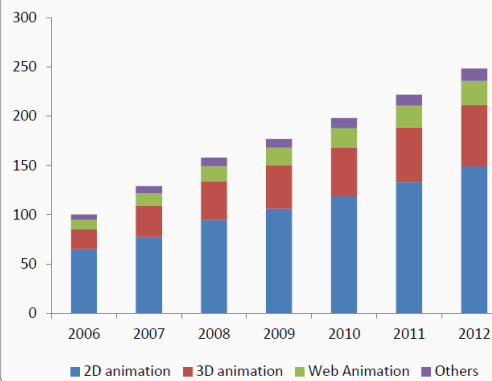
Number of Animation studios across the world



■ Europe ■ North America ■ Asia ■ Rest of the world



Break-up of global animation industry based on market segments (US \$ Billion)



■ 2D animation ■ 3D animation ■ Web Animation ■ Others



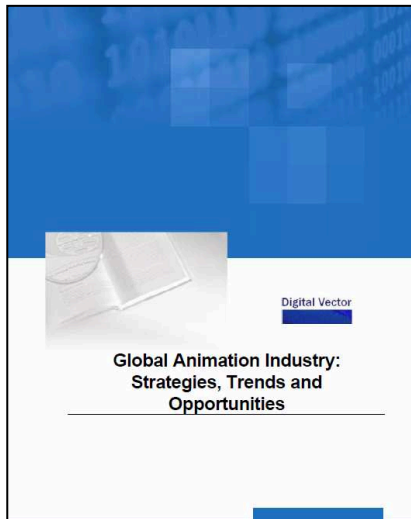
Animation outsourcing

	IPR and Content Development	Pre Production	Production	Post Production	Marketing Distribution and Exhibition
Activities	<ul style="list-style-type: none">• Identification of an existing IP or generation of a new idea• Involves asset procurement, fund scheduling, and integration of resources	<ul style="list-style-type: none">• Preparation of the script, character design, storyboard layout development	<ul style="list-style-type: none">• Development of specifications regarding the character, background paint, inking and painting and visual effects	<ul style="list-style-type: none">• Final sound recording, color editing, testing and special sound effects	<ul style="list-style-type: none">• Promotion, distribution video DVD release and cinema and TV screening
Percentage Effort	5%	10%	45%	30%	–
Outsourcing	Emerging	Emerging	High	Medium	–



Trade events

- IBC
- LIAF



VIDEO GAMES

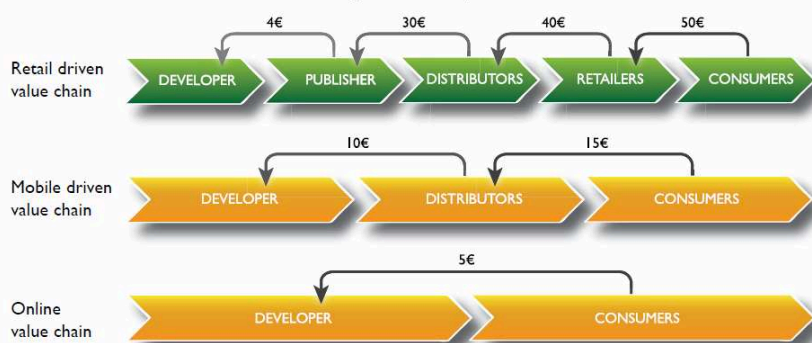


Video games

- Most publishers are;
 - Japanese (Nintendo, Sega, Sony...)
 - American (Microsoft, Activision - Blizzard, EA...)
- Online, mobile and social are the most important platforms
- Over the past decade, Europe has measurably lost much ground to countries such as Canada and South Korea
- Main EU markets: Germany, UK, France, Italy, Spain
- Major console platforms: Wii - Nintendo, Play Station - Sony, X-Box - Microsoft,



The most common value chains of video game industry





Gaming value chain

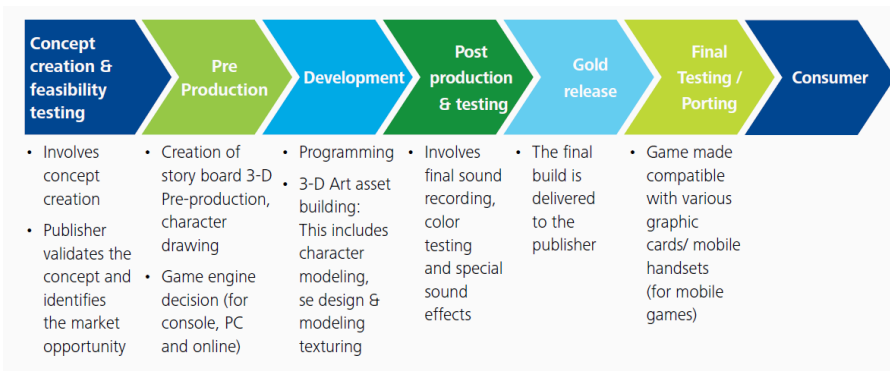


Fig. 2: Console games revenue to shake off decline and see growth throughout the forecast period

Total console games revenue (US\$bn), 2009–2018





The Global Games Market | 2013E

Per Region

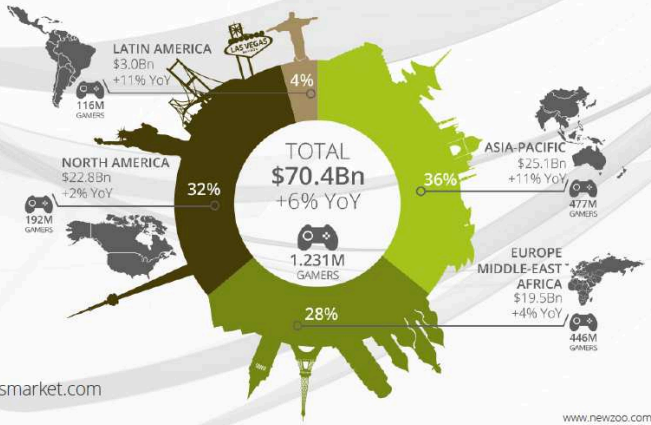
Based on financial company data, primary consumer research and actual transactions.



Source: 2013 Global Games Market Report
Out June 6 (€1,490)
Webinars on 4 & 5 June



www.globalgamesmarket.com



www.newzoo.com



The Global Games Market | 2013E

Per Segment

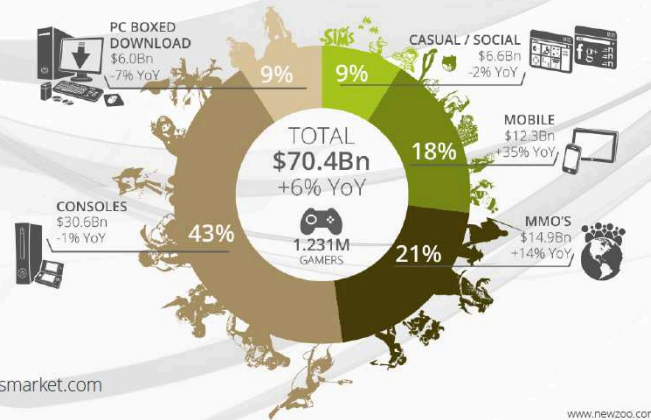
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www.globalgamesmarket.com



www.newzoo.com



Number (in million) and percentage of gamers per 'platform'

	PC/Mac boxed				Console games				Mobile devices			
	2011		2012		2011		2012		2011		2012	
GER	26	73%	24,7	64%	25	70%	22,4	58%	22	62%	23,5	61%
UK	16	52%	16	47%	21	66%	25	76%	20	65%	24	71%
FR	13	55%	10,9	43%	18	75%	19	75%	13	55%	14,3	56%
IT	9,2	66%	8,5	46%	10,1	72%	13,3	72%	8,2	59%	12,1	65%
ESP	9,3	62%	7,9	46%	12,2	81%	13,0	76%	10,2	68%	12,9	76%
NL	3,7	47%	3,0	38%	4,4	55%	4,6	58%	3,2	40%	4,4	55%
BE	2,1	53%	1,9	43%	2,4	60%	2,6	59%	1,9	48%	2	46%



Trade events

- Game Developer Conference
- GamesCOM
- Nordic Games
- Festival of Games
- EGX London
- E3 Expo – Electronic Entertainment Expo(USA)

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2013 Global Games Market Report

This 48-page PDF report showcases major trends, growth expectations towards 2016, revenue and gamer data per region as well as in-depth insights and datapoints for twelve key countries. A must-have for any company with an interest in the global games market.

The report comprises of extensive analysis of global game revenues, quarterly company reports and Newzoo's primary consumer research, benchmarked and validated with actuals and secondary research. Next to global insights this report zooms in on regions (N-A, EMEA, APAC and LATAM) and has detailed data for the following 12 countries: US, UK, Germany, France, Netherlands, Belgium, Poland, Turkey, China, Japan, Taiwan and South Korea.

The Global Games Report contains key statistics that can be used to support strategic decision making, localization challenges and the development of realistic business plans.

Typical questions this report answers include:

Global

- How much money will be spent on games in 2013?
- How are these revenues split by region and platform?
- How will game revenues evolve globally in the upcoming years (up to 2016)?
- What are the top 35 companies in the world based on game revenues in 2011 and 2012?

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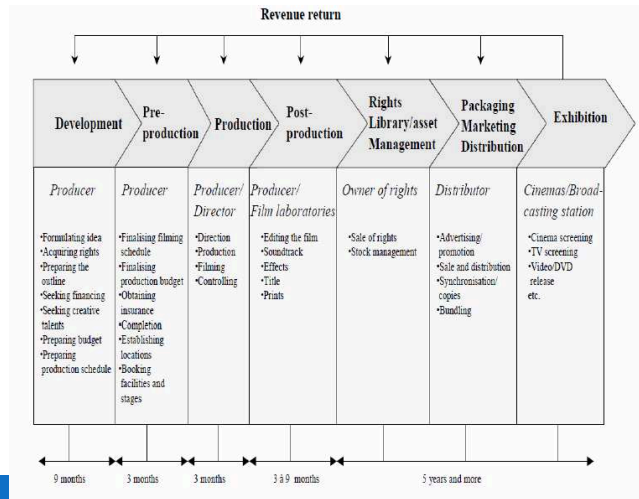
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Film - Television - Video on Demand

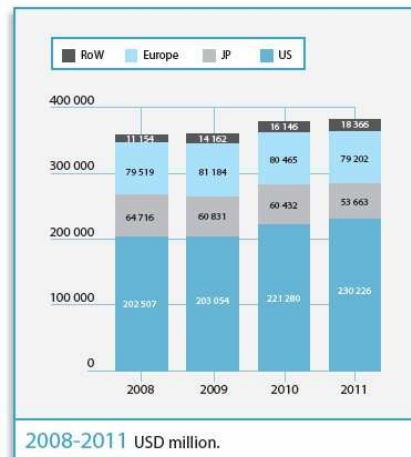
AUDIO - VISUALS



Value chain – film industry



Global AV market



	2007	2008	2009	2010	2011	2011/10	Sources
Broadcasters net revenues	71 359	69 678	68 806	72 445	73 134	1.0%	OBS
Public broadcasters (incl. radio)	33 463	32 139	33 177	33 709	33 650	-0.2%	OBS
Advertising TV	21 063	20 732	18 905	21 150	21 381	1.1%	OBS
Thematic channels	9 317	9 484	9 900	10 592	11 224	6.0%	OBS
Home shopping channels	2 564	2 393	2 384	2 443	2 503	2.5%	OBS
Regional and local TV est.	1 255	1 360	1 309	1 317	1 203	-8.7%	OBS
Private radio (est.)	3 696	3 570	3 131	3 234	3 172	-1.9%	OBS
Consumers expenses for AVMS distribution services (incl. taxes) 1	25 750	26 667	28 159	31 956	33 738	5.6%	OBS
Cable	10 867	11 214	11 368	12 081	12 478	3.3%	IHS Screen Digest
Satellite	13 561	13 473	13 821	15 570	16 082	3.3%	IHS Screen Digest
IPTV	882	1 382	2 016	2 866	3 653	27.5%	IHS Screen Digest
DTT	440	598	954	1 439	1 525	5.9%	IHS Screen Digest
Cinema gross box-office	5 596	5 613	6 080	6 372	6 431	0.9%	OBS
Physical video (incl. taxes)	10 367	9 347	8 429	8 117	7 538	-7.1%	OBS
DVD retail 2	8 661	7 741	6 740	6 217	5 555	-10.6%	IHS Screen Digest
DVD rental 3	1 646	1 360	1 143	1 010	873	-13.6%	IHS Screen Digest
Blu-ray disc retail 2	58	231	506	808	998	23.6%	IHS Screen Digest
Blu-ray disc rental 3	2	16	41	83	112	35.5%	IHS Screen Digest
VoD Online revenues (incl. taxes)	61	124	221	422	616	45.7%	OBS
On line on demand TV revenues	46	97	162	304	421	38.6%	IHS Screen Digest
On line on demand film revenues	15,2	27,2	59,6	118,7	194,9	64.1%	IHS Screen Digest
Games (offline and online)	8 817	10 430	10 168	10 496	10 464	-0.3%	IHS Screen Digest
Total	121 950	121 858	121 864	129 809	131 920	1.6%	OBS

1 Includes TV subscription, PPV and VoD revenues. European Audiovisual Observatory
2 Data related to 17 countries.
3 Data related to 15 countries.

European audio – visual market (2007 – 2011)



Trade event

- IBC



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Latest news

Rome workshop on funding by new audiovisual players announced!



DIREZIONE GENERALE
PER IL CINEMA

the Italian Ministry for Culture (Direzione Generale per il Cinema Ministero dei Beni e delle Attività Culturali e del Turismo).



Full programme and registration details [here](#).
Palazzo Massimo alle Terme, Rome
where the conference will take place on
Thursday 12th of June from 3pm to 6pm.

Box office down in the European Union in 2013 but first quarter of 2014 shows promise

Press releases

27/05/2014 Press release - Euromed Audiovisual launches the first comprehensive report on film and television in Algeria (Strasbourg, France / Tunis, Tunisia)



09/05/2014 Press release - Box office down in the European Union in 2013 but first quarter of 2014 shows promise (Strasbourg)



08/04/2014 Press release - GIRLS JUST WANNA HAVE FILM! What place for women in today's film industry? (Salon des Ambassadeurs, Palais des Festivals, Cannes, France)



01/04/2014 Press release - Johannes Studinger elected to Chair Observatory's Advisory Committee (Strasbourg)



13/01/2014: Vacancy for a trainee at the Observatory