" Middleware and European Standardisation" Köln, 17.8.2011

Event supported by NEM initative



European Games Developer Federation

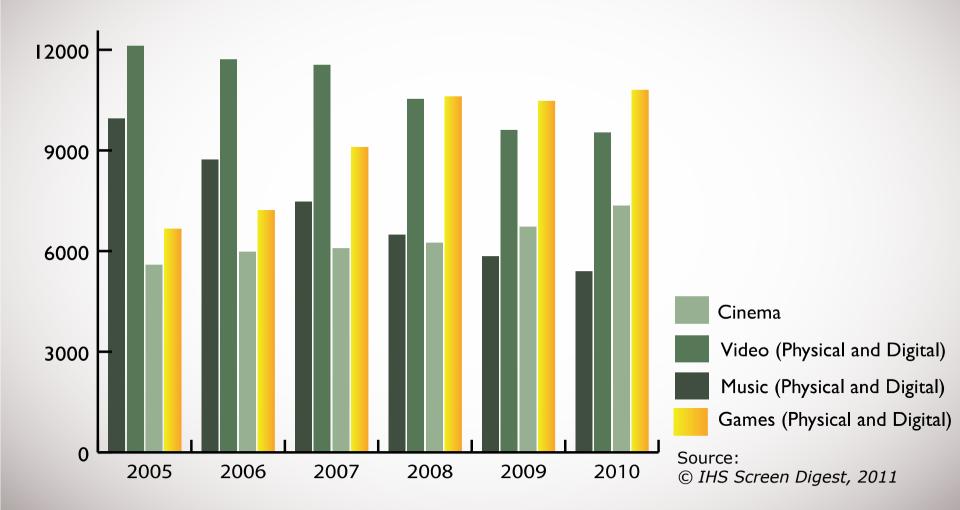
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EGDF	600	12	17000
YOU CAN REACH	game studios	European countries	i game industry I professionals

UK, AT, DE, FR, DK, FI, NO, BE, NL, LU, ES, IT

EGDF IS A TRADE-ASSOCIATION (SME) THAT FOCUSES ON

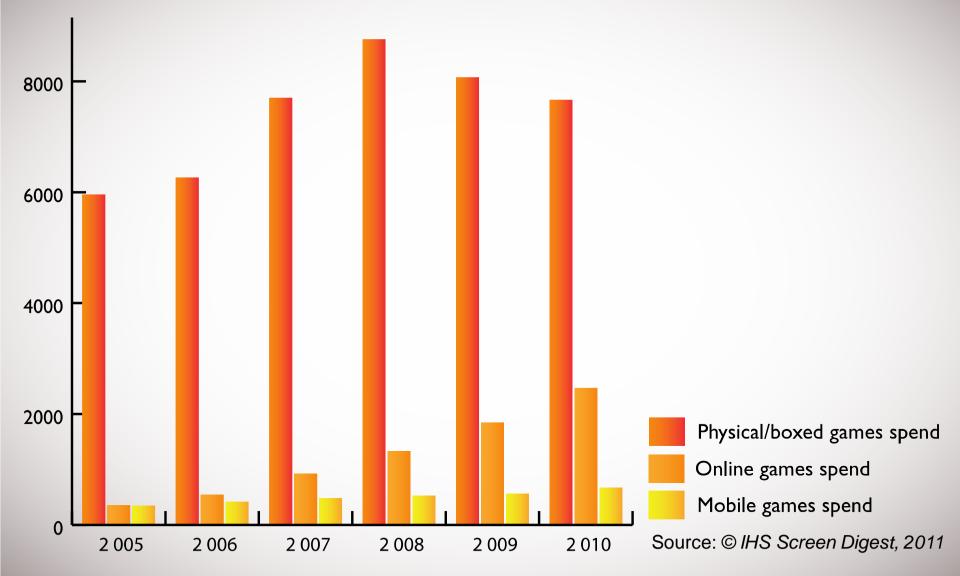
Policy Dissemination Elaboration development participates procdisseminates elaborates game esses developing developers' the best mutual positions policy recommenpractices, new dations that sup-(technology, standards, port game develnew tools etc. content) opers





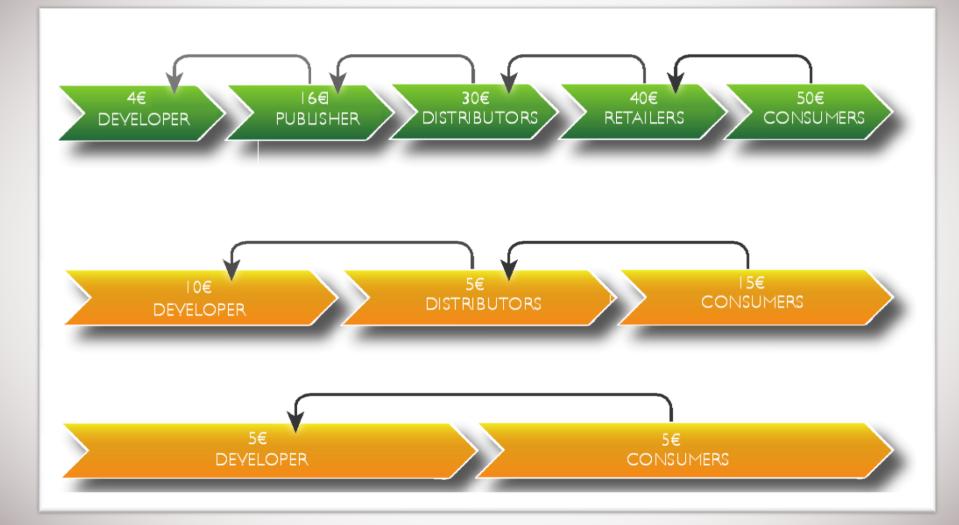
Consumer spending on entertainment media (€m)





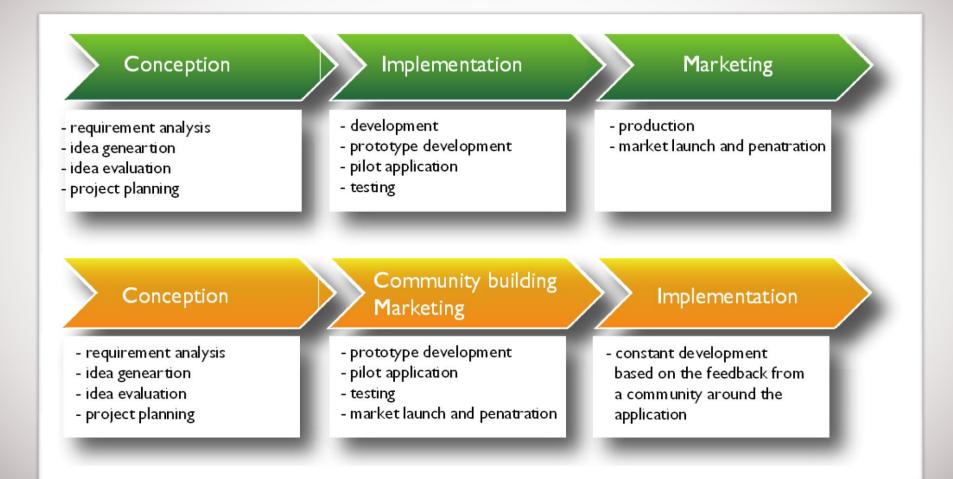
European consumer spending on games (€m)





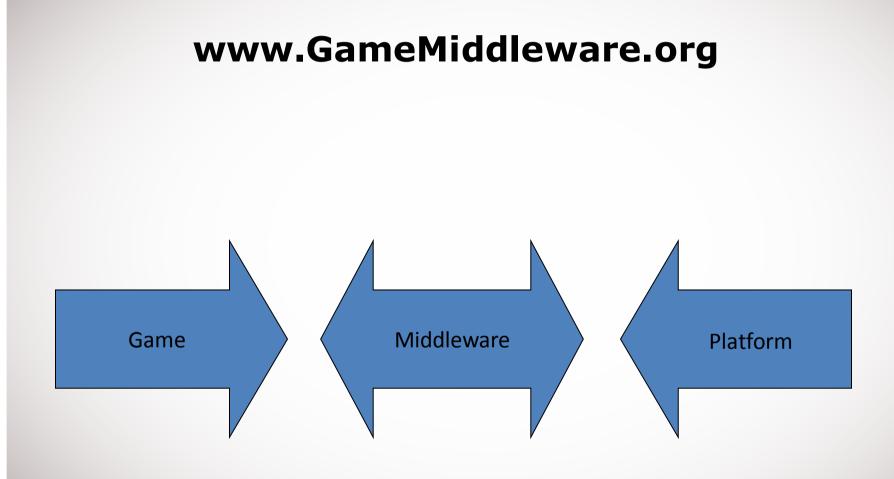
Value chains of video game industry





Viral innovation process







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Standardization and Middelware

Examples of European Standardization: Metric system, GSM

Game Development uses increasingly specific middleware technologies. Developers tend less and less to reinvent the wheel.

Europe is more and more the home of middleware of global relevance. Different aspects of the value chain are represented and the healthy competition shows also the commercial relevance.

Europe is however also confronted by de facto standards from outside.

The innovative pace of the industry makes a slow standardisation process difficult and needs careful regulation, which is open for innovative and new developments.



The Vision

Tools and middleware for content creation are developed to ease the access for content creation to the various platforms and render the European content more independent from overseas soft- and hardware.

- interoperable.

- technologically attractive

Multiavalibility of content from multiple sources implies both higher diversity and standardisation. As transaction costs are going down, the value of the content itself becomes more and more central and content will have an higher impact on the whole value chain.

Network effects and economies of scale can contribute to the fact, that inferior technologies supersede by establishing a standard. It is possible, that those companies, who have already dominant position will be taking their dominant position to bring it to other markets.



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European Game Middleware

Europe has a very interesting position:

About 50% of entries at <u>www.GameMiddleware.org</u> are of European origin

A high number of SME's providing middleware technology in the games industry

These technologies

- are very important for our industry (just remember the Renderware case)
- have an important spill over effect to applied games
- reach out worldwide (e.g. Vision, CryEngine, Unity for game engines) very strong in Asia
 -too.



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Standardization happens anyway

Main standardisation clusters in the context of games:

Web: W3C -> Web standards-> increasingly interested in games
Video & media coding: Khronos, MPEG ->compression and more
TV & Radio: ITU, DVB -> Screens, rendering
Telephone & Communication: ETSI, OMA -> currently researching translation, billing
Military, health etc: Serious Games

De facto standards: e.g. Flash

Does the games industry research?

The essence of game development is research. The game industry, however, has not traditionally labelled its work "research" but simply done what is necessary to get the user experience right. Many areas of research in commercial game development touch on or overlap traditional industrial or academic research; however despite this fact, the industry has made few efforts to co-ordinate its own research with that of the academy, adjacent industries or even within the game industry.



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But what does the games industry ?

Moderator: Dr. Malte Behrmann, General Secretary EGDF

Panel & Presentation: Anne-Marie Sassen, European Commission, Brussels Responsible for the implementation of standardisation policy of the Digital Agenda

Felix Röken, Havoc (Trinigy)

Trinigy is a European 3D middleware, which has been very successful worldwide and especially in Asia recently and has been acquired last week by Havoc (INTEL)

Dr. Andreas Gerber, Xaitment Xaitment is a European AI middleware, which has been successful in Asia and the US



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