

International audio production for videogames

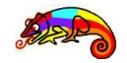
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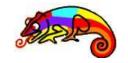
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Scenario 2010

- AAA games become Hollywood productions
- Sound quality comparable to movies
- International distribution to pay investment
- US titles: international sales > domestic sales



International audio production

- What is game localization
- Audio for games
- Audio for games localization
- Film dubbing vs Games audio localization
 - Pre-production
 - Recording
 - Post-production
 - Quality assurance
- Conclusions
- Questions



Game localization is...

- Gameplay adaptation to culture +
 - Translation +
 - Dubbing +
 - Software integration +
 - Functional & Linguistic Testing =

Game Localization



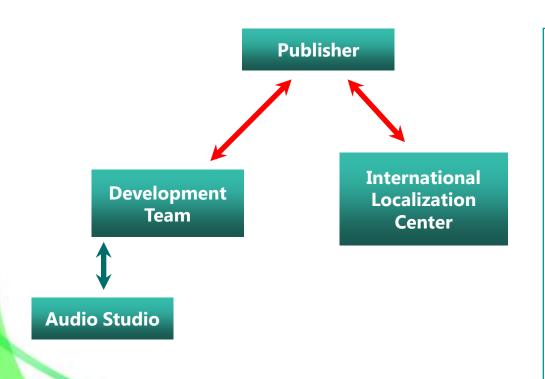


Development Team

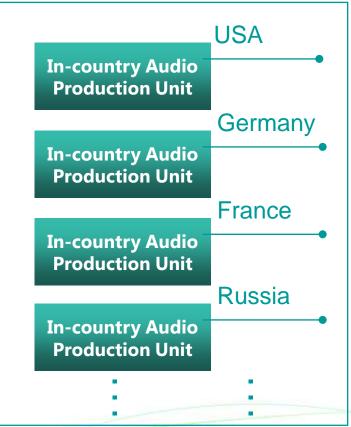


Audio Studio

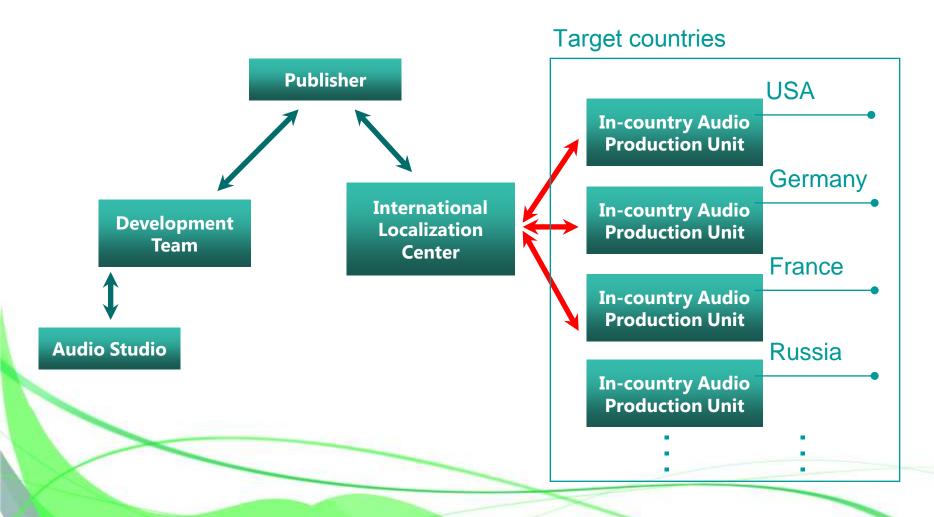




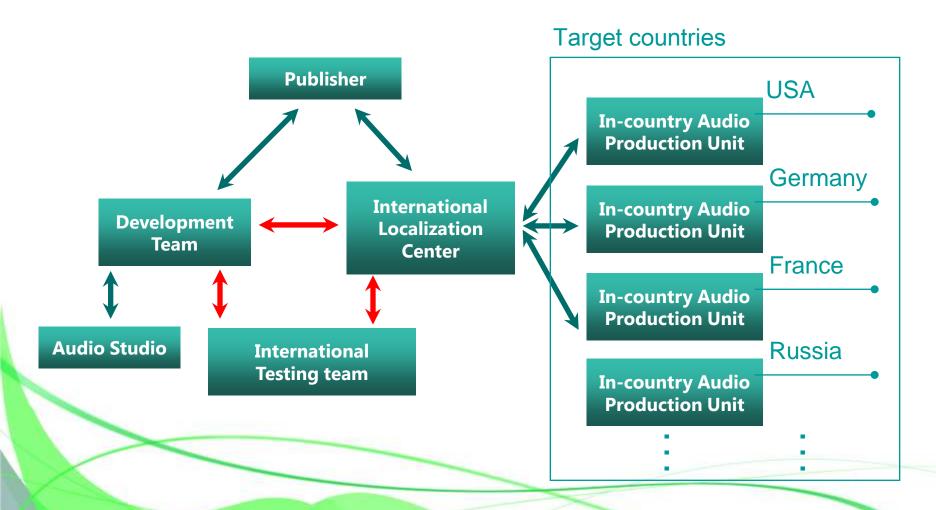
Target countries





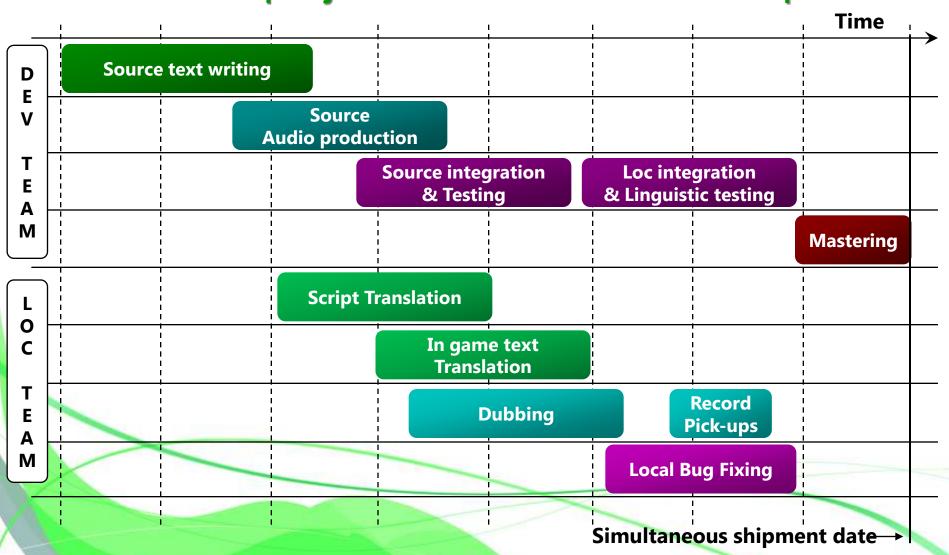


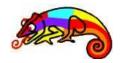






Game project schedule for "simship"





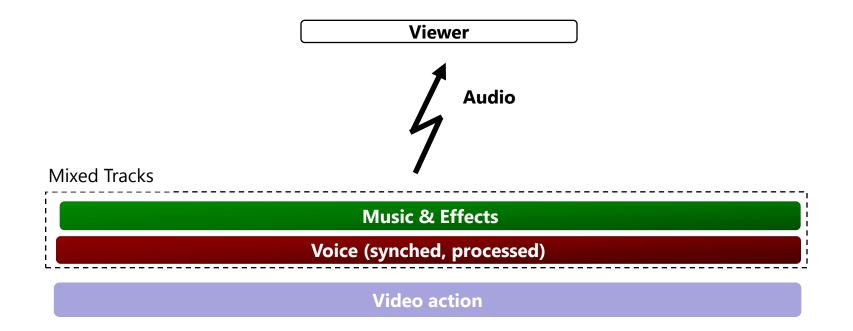
International game audio in figures

	1 Language	Languages	Totals
Actors	5-50	4-10	20-500
Characters	20-200	4-10	80-2,000
Voice files	1,000-10,000	4-10	4,000-100,000
Hours of audio	1.5-15	4-10	6-150

Typical timescale: 1-6 months



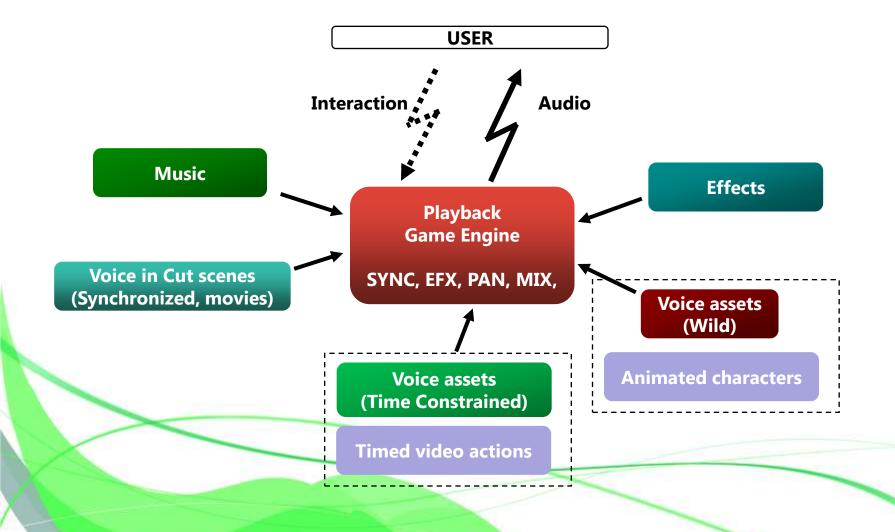
Film audio



Time



Videogame audio





Example: Fable 2 (Lionhead – Microsoft)

Audio features: synched voice, dynamic panning, dynamic mixing Playback example in English, French, Italian





FILM DUB Pre-production

Pre-check



Storage and media compatibility with

local studio equipment (Digital Betacam tape, DA98 tape, ProTools sessions...)

Script time-code

Asset preparation



If required, specific operations can be made (digital acquiring, audio conversion...)



GAME LOC Pre-production (1)

Formal pre-check

(all files)



Number of files: complete File Names: correct

Content pre-check

(TC, SoundSynch, LipSynch)



Script = Original recorded text



GAME LOC Pre-production (2)

Assets preparation

Choose how to manage the audio production process

Script



Arranged to suit the recording and post production needs

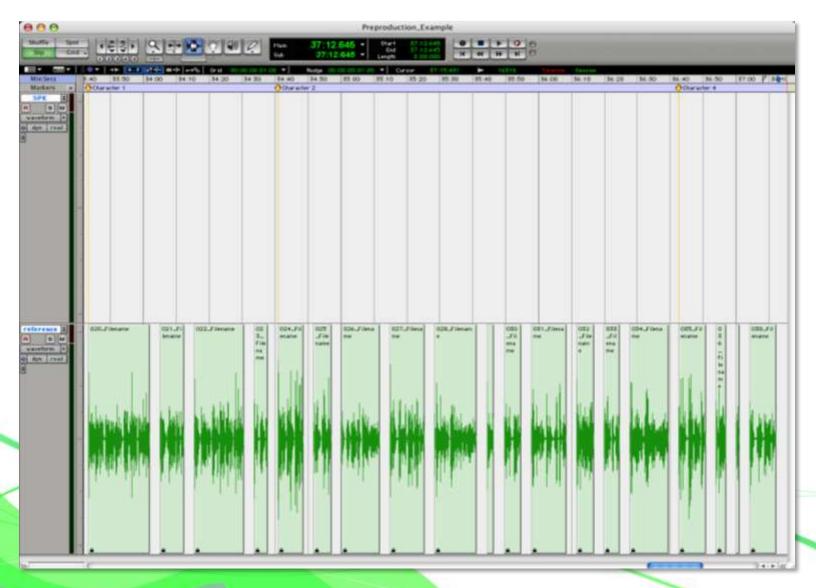
Audio



- Renaming files adding a progressive number
- Converting audio format
- Importing in a ProTools session
- Place markers into the ProTools session



Example: Pro Tools session ready for recording





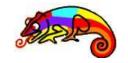
FILM DUB Voice recording



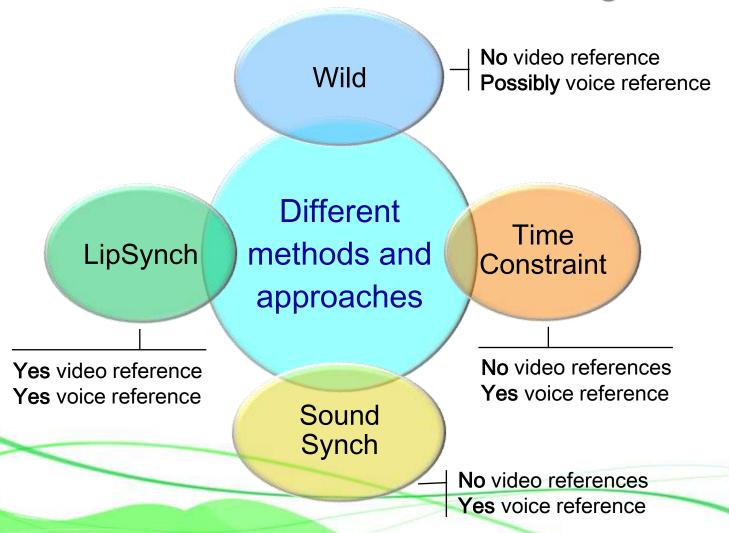
FINAL MOVIE



- Final video footage
- Final music soundtrack
- Final original recorded dialogues
- Final audio effects



GAME LOC Voice recording





Example: Typical recording session for movie dubbing

Audio features: 2 characters interaction, one of them already dubbed





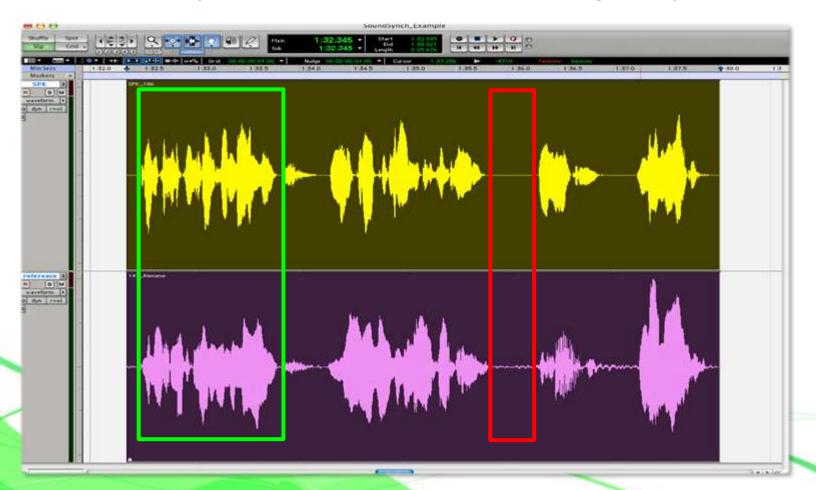
Example: Typical recording session for **game** localization





How to synch without video? Sound Synch!

Used when the synthetic characters rendering not yet completed





GAME LOC Artistic performance

Local Casting

Local Director

Game Context

- Choice on wide pool
- Professional comedians
- Experience in local TV/Movie dub
- Drawings/images of characters
- Description of characters
- Videogame general plot



Great creative result, suitable for country (reviews, community)



FILM DUB Post-production

Linear Approach

- Sound engineer follows the dialogues in chronological order.
- Dialogues are processed and mixed with m/e.
- Final audio track will not be changed after post-production
 - Post-production usually done in fully equipped projection theatre
 - Audio is played back exactly as finalized.



Example: movie post-production work

Adjust cue levels

Set position of the character (e.g. close up, background ...)

Create ambience (e.g. reverb, echo on voice and effects)

Process voice (e.g. behind a door, talking on the phone...)





GAME LOC Post-production

Non-linear, and dynamic approach

- No information about where and when files will be played
- Each file is played at the right time by software engine

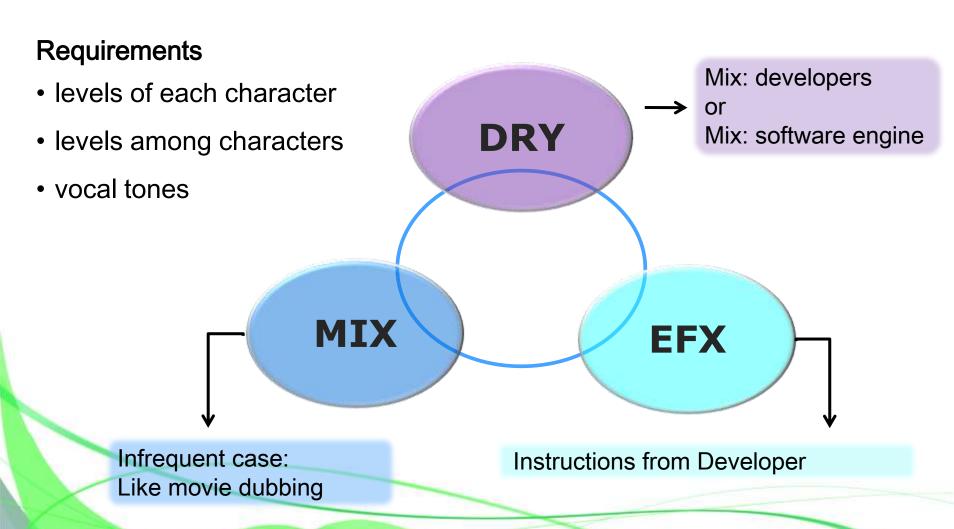
Programmed by the game developers.

→ Chosen by the player.

Handback to developer: set of thousands of files

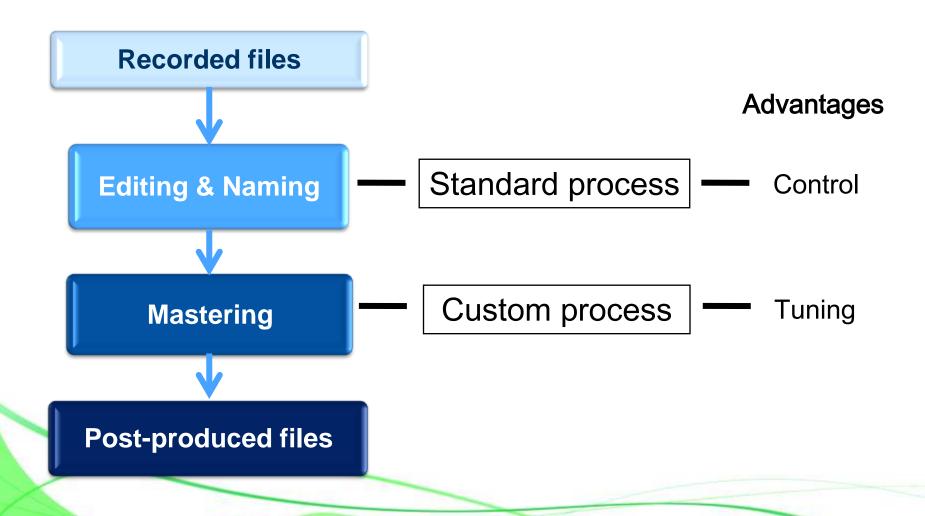


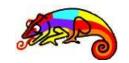
Mastering scenarios





Process breakdown





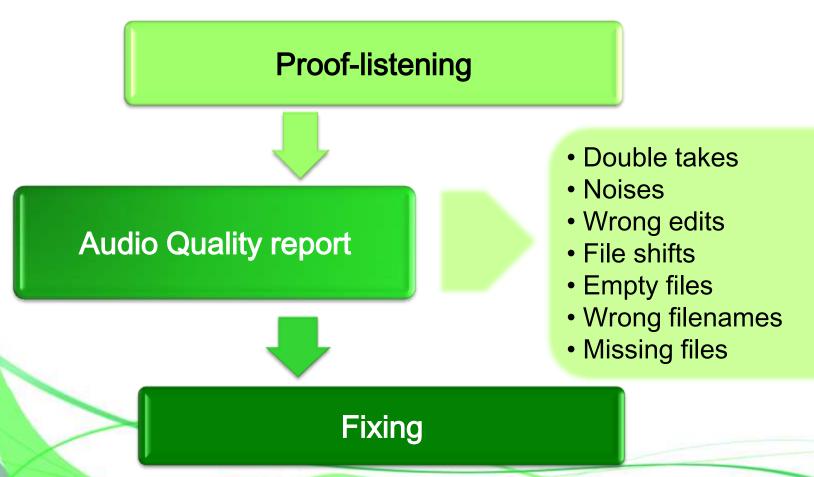
FILM DUB Quality Assurance

- QA made mostly during post-production
- Final full film review takes a couple of hours
- Minor changes to:
 - Synchronization
 - Fields
 - Levels



GAME LOC Quality Assurance

(1) Before delivery for integration

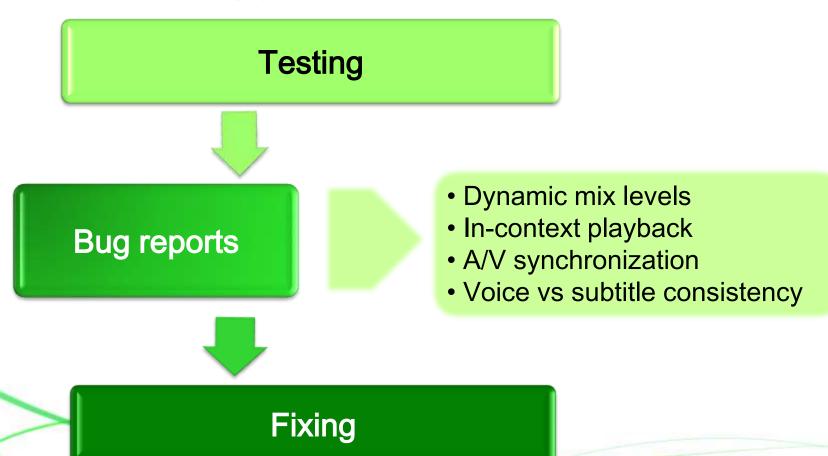


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GAME LOC Quality Assurance

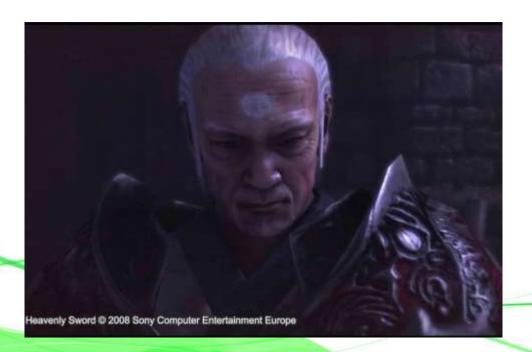
(2) After integration





Example: *Heavenly Sword* (Ninja Theory – SCEE)

- Sequence captured from 4 different PS3 game plays
- Voice recorded in 4 countries.
 - Old man: Italian, Lady: French, Warrior1: Spanish, Warrior2: French
- Recording with Sound Synch method (no video reference!)
- Pre and post-production done at one central location





Conclusions

- Audio localization for games:
 - similar but different from movie dubbing
 - more and more integrated with original game production
- Challanges:
 - context for actors
 - files management and Quality Assurance
- Opportunities:
 - produce top quality, artistic multilingual dubbing
 - · meet expectations of players around the world



Thanks for your attention

Questions?

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Presentation available from CEDEC website English and Japanese versions