quanticream

HEAVY RAIN

A CHALLENGING PRODUCTION

CHARLES COUTIER PRODUCER

QUANTIC DREAM

- Established in 1997 in Paris, France;
- > 100 full-time employees;
- Leading French independent studio;

Unique Infrastructure with in-house Motion Capture set, 3D scanner and sound studio;

quanticream

QUANTIC DREAM

« Developing innovative experiences based on emotion »

Worked with *EIDOS, VIVENDI, MICROSOFT, ATARI, SONY;* Created the first virtual actor with *David Bowie* in 1999; Proprietary technologies and tools since day 1;









quanticream







Genre:	A film noir thriller in Interactive Drama format;
Platform:	Exclusive PLAYSTATION 3;
Localization:	16 languages
Release:	February 2010;
Critics:	90,1% based on 420 reviews
Sales:	1.4 million

A JOURNEY

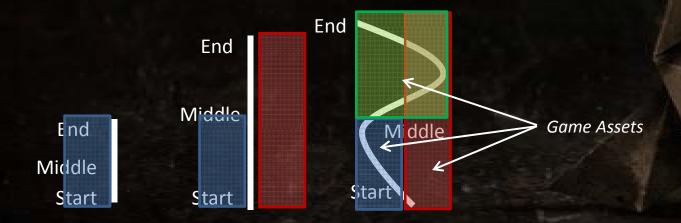
"Journey" Vs "Challenge" :

- Games are usually based on challenges (Beat a boss, survive, solve puzzles, etc.)
- There is <u>No</u> Challenge in HR (No game overs, nothing hard to do, etc.)
- Journey : The story and the way the player sees it

HEAVY RAIN UNIQUE FEATURES THE JOURNEY

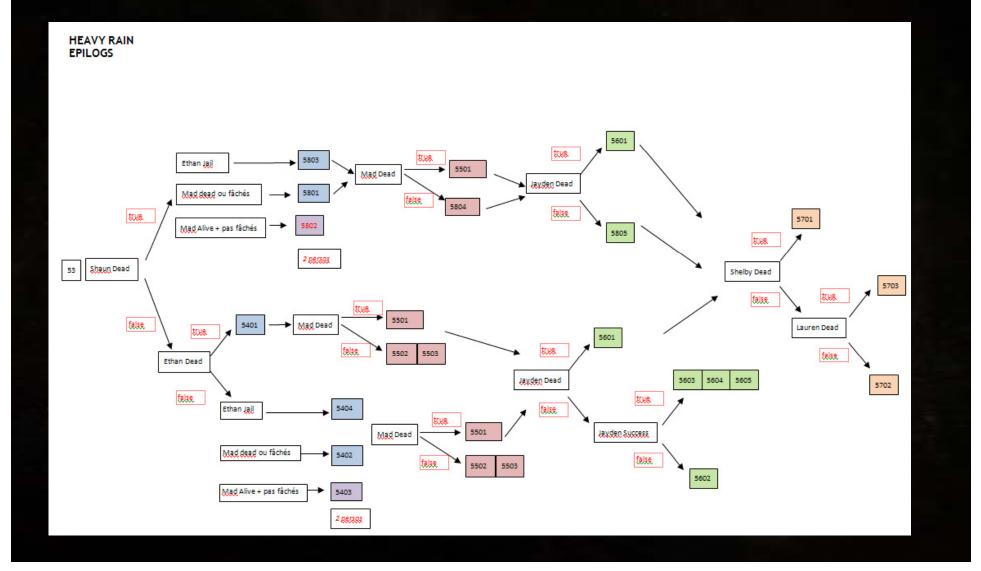
Bending Stories

The story is a rubber band the player can deform The player is able to create different variations on the story



To produce the assets not for one path, but for all the possible paths

HEAVY RAIN CHARACTERISTICS THE JOURNEY



HEAVY RAIN UNIQUE FEATURES THE JOURNEY

Requires a huge amount of assets !

- ➤ 2 000 pages of script;
- ➤ 60 unique sets;
- ➢ 4 playable, 20 secondary characters
- ➢ 60+ additional characters & « crowd »
- > 170 days of mocap shooting (3 movies)
- ➤ 30 000 unique animations;

A CREATIVE-DRIVEN PROJECT

- Game Design Driven
- Personalised Creative Vision
- David Cage

Artistic Direction is key:

It makes the experience Good





... or with flaws

LAST QUARTER OF FAHRENHEIT (INDIGO PROPHECY)

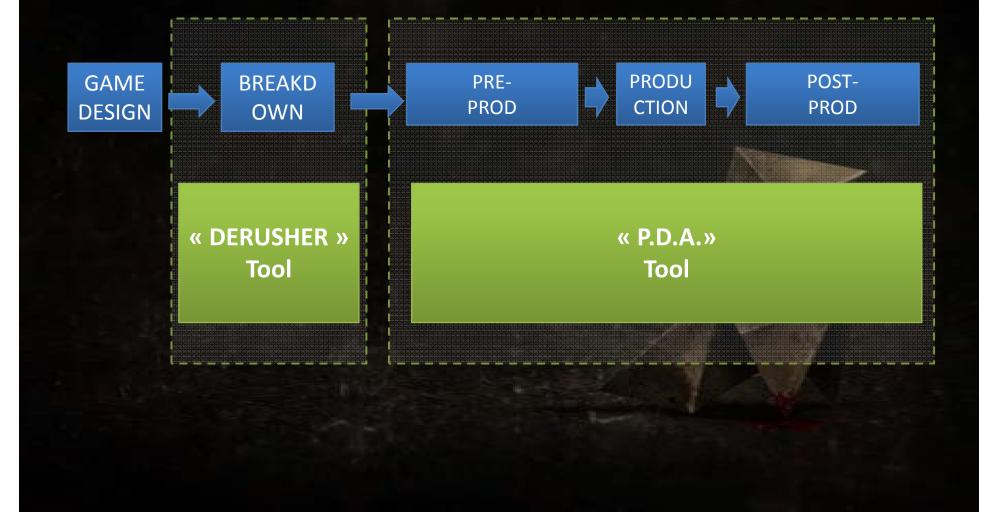
With the same Production value, if the Creative direction is great, the experience is flawless.

TO SUM-UP, Two issues to deal with :

A Data Consuming Production
 A Creative Driven Project

HEAVY RAIN ASSETS PRODUCTION

ASSETS PRODUCTION PRODUCTION TOOLS



ASSETS PRODUCTION PRODUCTION TOOLS

The « DERUSHER » :

- Breakdown of the Game Design
 - Game Structure
 - Graphic Assets (location sets, characters, sounds, etc.)
 - Mocap shooting lists
 - Localisation
- Naming convention
- Place-holder files creation
- Data source management

Every single data used in the game <u>must be</u> « derushed », means identified in this tool

ASSETS PRODUCTION

DataSafe

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ASSETS PRODUCTION PRODUCTION TOOLS

The « PRODUCTION DATA ASSISTANT » :

- Task /Asset Allocation
- Production follow-up
- Validation
- File Transfer
- Data source management
- Database export

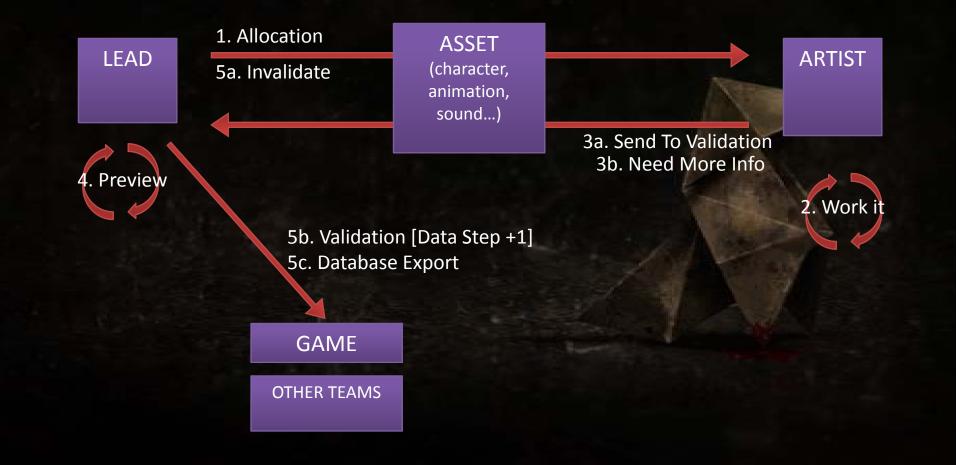
ASSETS PRODUCTION

DataSafe

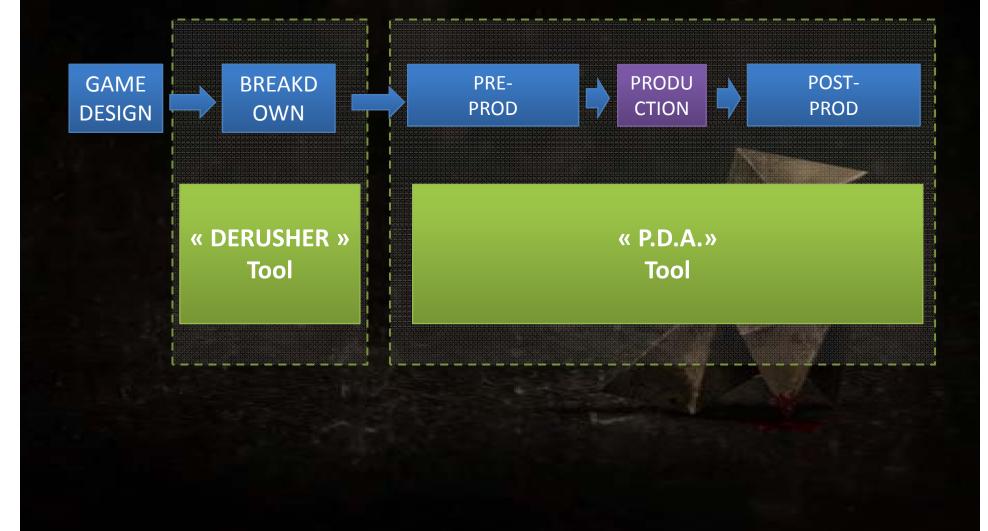
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ASSETS PRODUCTION PRODUCTION TOOLS

The « P.D.A. » :



ASSETS PRODUCTION PRODUCTION TOOLS



Before Starting

- "We absolutely need Outsourcing" A solution to reduce the production times + keep costs down: 450 m/m for 3D
- "BUT people struggle with Outsourcing"
 - Running Late
 - Poor quality
 - "Robotic" production
 - Distance and language issues...

What We Did

1. Potential Partners Evaluation

- 18 studios contacted;
- 10 offered to do a large test;
- 4 actually delivered;
- 2 pre-selected;
- 1 made 80% of the outsourced assets.

2. Training and Team Building

- Ramp up is crucial;
- The more time we spend to train external artists, the better result is;
- Try to make external artists feel really part of the project;
- Make the outsourcing vendor your <u>partner</u>, share your enthusiasm regularly, and with as much staff as possible.

3. Detailed Preparation

- Step by step, highly detailed documentation process;
- "No questions" objective;
- The "Outsourcing Pack" creation

4. Communication procedures

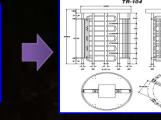
- Dedicated in-house Outsourcing Manager and Artists
- Close follow-up, continuous communication (weekly phone calls...)
- Strict delivery and feedback procedures (bug report...)
- A visit on site every 3 months.



Outsourcing Pack Content



Initial sketches and reference material



Detailed blue prints _____



2D ambiance design



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Rough 3D models
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- Design / Moodboards : general aspect, mood of the set, Image references
- Blueprints : architect work
- Artworks : ambiance
- 3D place-holder mesh : Maya files, very low poly, untextured
- Item Boards : image references of the main objects
- Assets List : detailed and exhaustive list of all the objects contained in the set.

Design First Draft



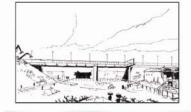
Design / Mood Board



















Moodboard

HEAVY RAIN SET DESIGN CRIME SCENE

































Second Draft

HEAVY RAIN SET DESIGN CRIME SCENE















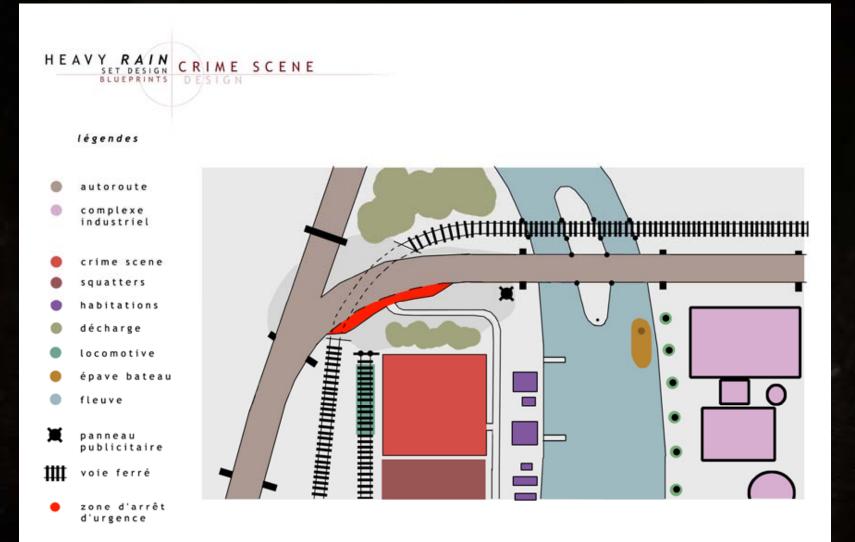




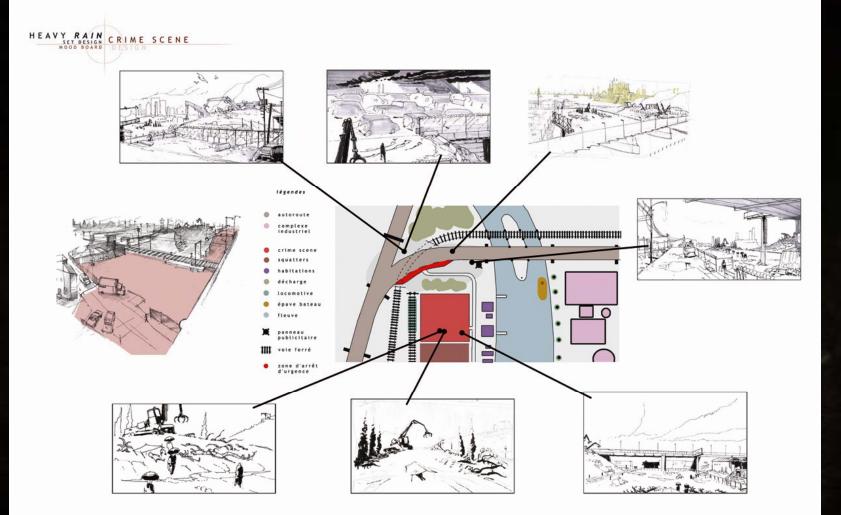




Schematic Blueprint



Schematic Blueprint



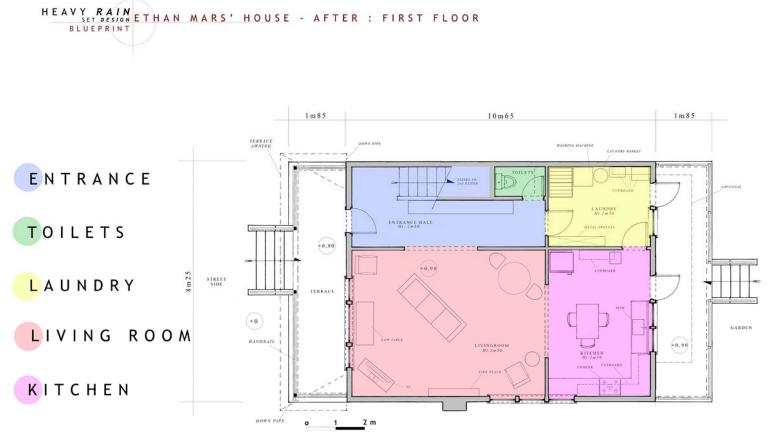
Concept Art



Concept Art



Blueprint

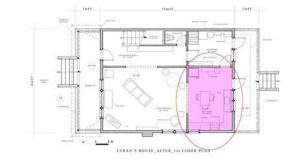


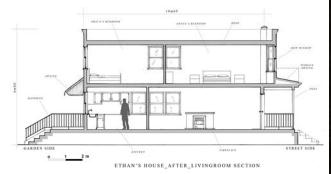
ETHAN'S HOUSE_AFTER_1st FLOOR PLAN

Moodboard & Placeholder



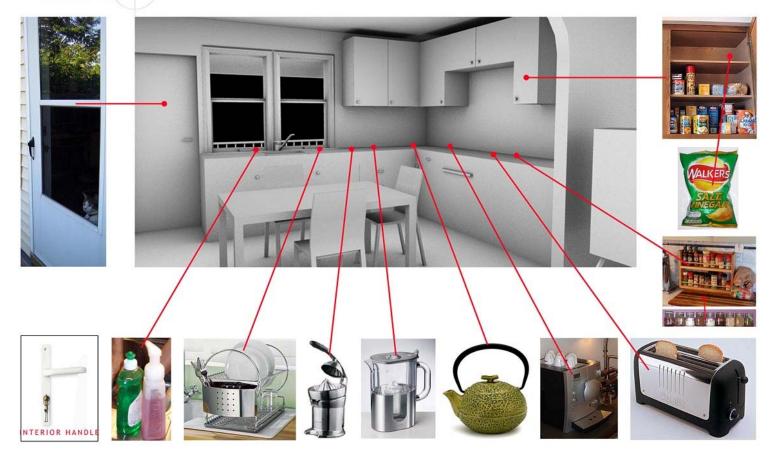






Items Board

HEAVY RAIN SET DESIGN ETHAN MARS' HOUSE - AFTER : KITCHEN ITEMS BOARD 2



Items Board



Concept Art



Concept Art



Concept Art



ASSETS PRODUCTION OUTSOURCING PROCESS

VIDEO "Lexington Train Station" Production phases

ASSETS PRODUCTION OUTSOURCING PROCESS

Result :

450 men/month of work had been delivered:

- ➤ 55 individual sets
- In 9 months
- ➤ On time
- On budget

ASSETS PRODUCTION OUTSOURCING PROCESS

What Went Wrong:

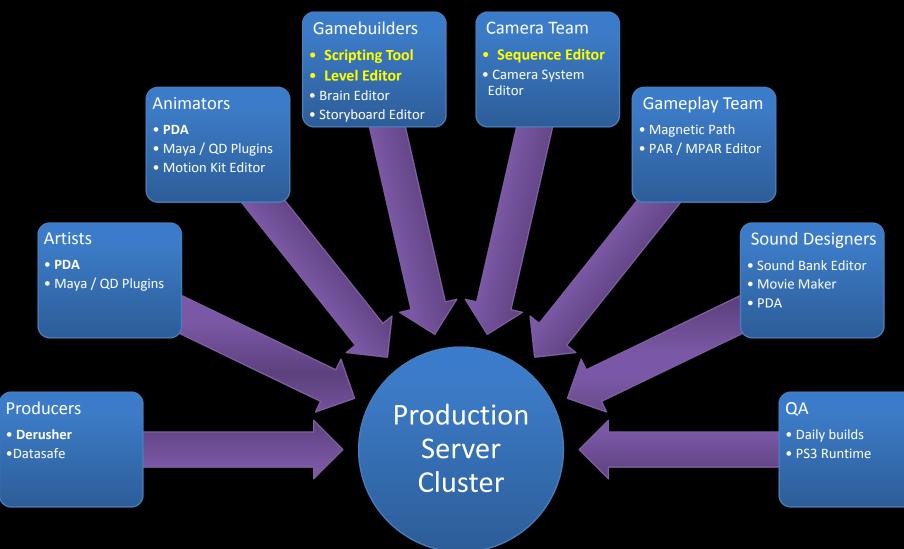
• Turn-over

- Quality drop because of loose of XP

• Legal

- Copyrigthed image use
- Unproper names and logos
- > Very very big issue during post-production

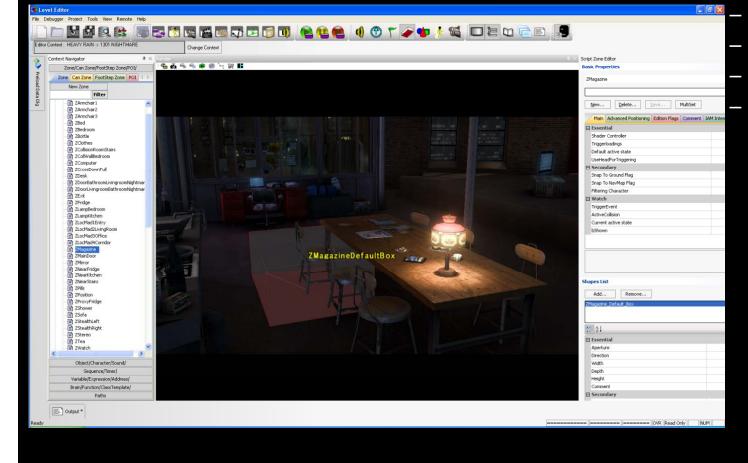
ASSETS PRODUCTION TOOLS



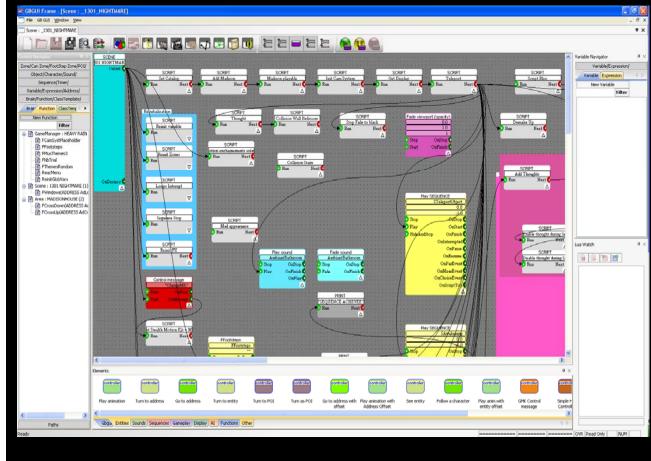
ASSETS PRODUCTION SCRIPTING TOOLS

LEVEL EDITOR

Scene / Area Zones / Timers (triggers) Characters / Objects Sounds



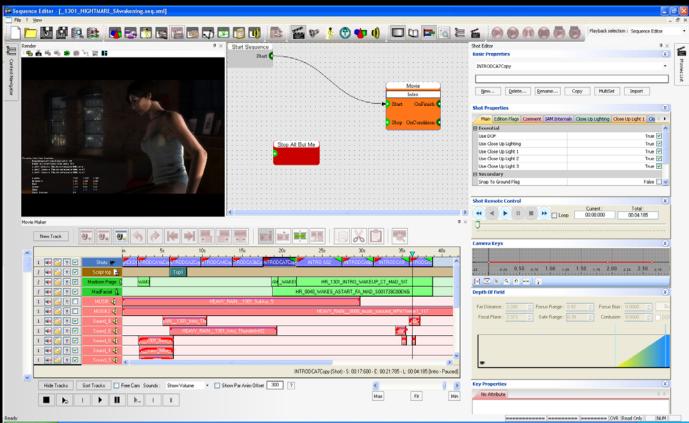
ASSETS PRODUCTION SCRIPTING TOOLS



SCRIPTING TOOL

- No programming skills required
- Easy to use
- Graph Oriented Programming
- Lua generated

ASSETS PRODUCTION SCRIPTING TOOLS



SEQUENCE EDITOR

- Cinematic System in Real time
- Graph oriented tool (movie link)
- Shot Editor
- Close up Lighting

HEAVY RAIN A CREATIVE-DRIVEN GAME

A CREATIVE-DRIVEN STUDIO PROJECT LEAD

H.R. Project Lead is:

Marketing The Publisher Shareholders The Producer The CFO The CFO The CTO David Cage



- The Quality bar
- Technical constraints aware

• Guarantee

- Game Integrity
- Creative Vision Consistency
- Creative Director <u>and</u> CEO
 - Brings ideas and vision as Creative Director
 - Assumes them as CEO, with Guillaume de F. (co-CEO)



The Mall scene

- A Crowd of 1000 passers-by
- Player can move freely
- 5 minutes in the game
- 2 years in development!

Not isolated in his « cage »

– Production issues

Ex: One scene never built: « The Subway » action sequence



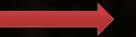
- Team & « User Tests » feed-back

Ex: One scene removed to adjust the pacing of the game : « Wake Up » scene



A CREATIVE-DRIVEN STUDIO COMPANY CULTURE





Challenging !

Why not, I need to think about it !

A CREATIVE-DRIVEN GAME CREATIVE DIRECTOR & PRODUCER *RELASHIONSHIP*

Vision holder vs Project Manager



A CREATIVE-DRIVEN STUDIO CREATIVE DIRECTOR & PRODUCER *RELASHIONSHIP*

No Fight, but Collaboration



A CREATIVE-DRIVEN STUDIO CREATIVE DIRECTOR & PRODUCER *RELASHIONSHIP*

Mutual Trust

• On one side :

- I know he is <u>aware</u> of the <u>consequences</u> of his creative choices;
- I know he listens to people.

• On the other side :

- He knows I won't say NO until I have a very good reason;
- He knows I will do everything I can to develop his ideas.

A CREATIVE-DRIVEN STUDIO CREATIVE DIRECTOR & PRODUCER *RELASHIONSHIP*

- One voice
 - Always the same message to the team
- One way
 - Both following the same way and targetting the same goal
- One philosophy
 - Evangelizing rather than whipping !

A CREATIVE-DRIVEN STUDIO PRODUCER'S ROLE

- To Realise the Plan
 - To transform the Game Design into a first version of a game
- To Control the Change
 - To plan when and how modifications can be done;
 - To alert/argue when a change or new idea is really problematic.
- To Facilitate the Improvements
 - Creation needs iteration

DYNAMIC PRODUCTION ORGANISATION

PRODUCTION ORGANISATION OVERVIEW

• Adaptive :

- Context / Project phase
- Discipline

• Pre-Production : Mix

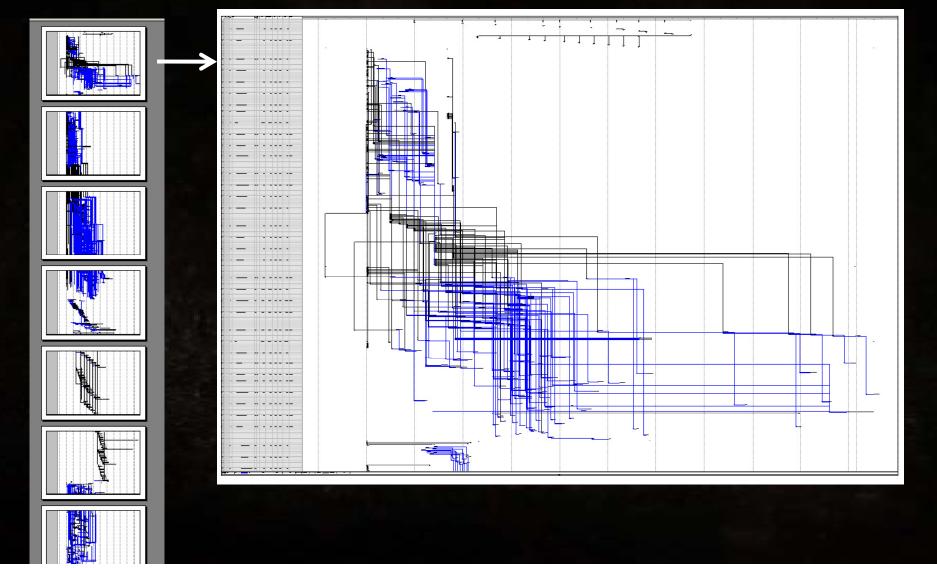
- Linear : Tools (version 1)
- Iterative : gameplay, code or graphical prototypes
- Production : Linear

• Post-production : Iterative

PRODUCTION ORGANISATION LINEAR « WATERFALL » SCHEDULE

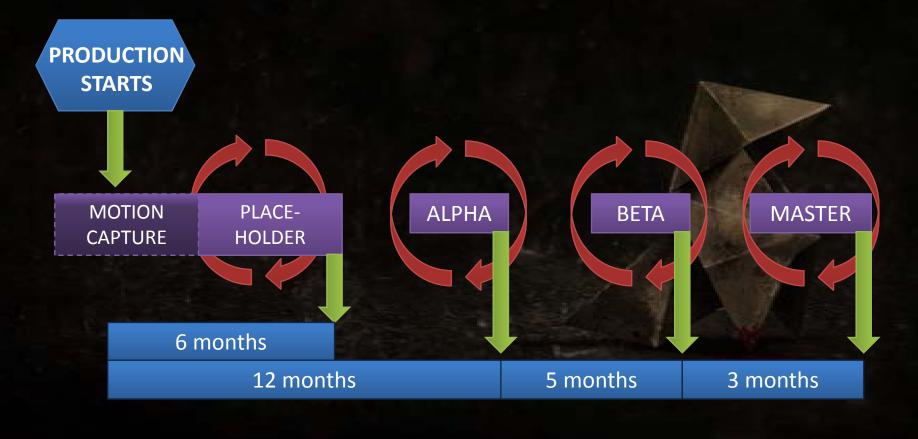
- The whole schedule is detailed into MS Project
- One Master file containing several sub files (per discipline).
- Each file can be updated by the concerned lead

PRODUCTION ORGANISATION LINEAR « WATERFALL » SCHEDULE



PRODUCTION ORGANISATION ITERATIVE PROCESS

Game Iterations



PRODUCTION ORGANISATION ITERATIVE PROCESS



PRODUCTION ORGANISATION ITERATIVE PROCESS

VIDEO first version of the game

CONCLUSION

What it took to produce Heavy Rain

- Great script, driven by a strong and consistent Creative Vision;
- Meticulous preparation;
- Custom tools;
- Great outside partners (publisher, vendor...);
- Adaptive production organisation;
- And also...
 - A courageous and devoted team
 - A lot of work !...

THANK YOU !

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