

#### MAFIA II Postmortem

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COLOGNE, GERMANY AUGUST 13-15, 2012

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**EUROPE** 

# Who am I

• Old dev chap



- Lead designer/producer of Vietcong series
- Gameplay producer of Mafia II (since 2008 planning and design management)
- Currently without management burden

## MAFIA II Postmortem

- (Very) brief overview of development
- Focus on few areas
  - Team
  - Design
  - Tech

Subjective perspective

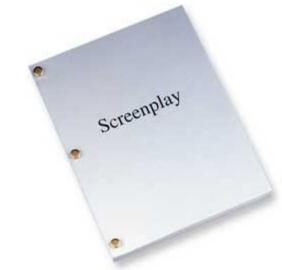


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# Brief overview of development

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- 2009 full production
- 2010 beta, release





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#### Hey you! Not so fast!

AX.

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#### Postmortem: Few topics in detail



Platform change

#### Design and level design

#### ► Team expansion

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# Consequences of platform change

# (Original) project goal

Fast development of the sequel

• License proven engine

Primary for consoles

# Imagine

- 2004
- Gameplay prototyping in progress
- Asset production in progress
- The engine company got sold
- Realize that you won't make it for the current generation



# Switch to next gen!

- 2005 decision made
- Consequences
  - Build our own engine (from scratch)
  - Prototype all gameplay (again)
  - Produce all assets (redo/renew)





## Increasing detail and quality

- Building next gen tech takes more coders
- AAA game with own engine
  - 1999 Hidden and Dangerous
  - 2002 Mafia1
  - 2003 Vietcong1
  - 2010 Mafia2

## Building next gen tech takes time

- 2004 Started
  - !@#\$

!@

!@#\$%^&\*

- 2007/2008 Playable something
- 2009/2010 Feature complete

# Setting up priorities (not) right

- Main focus on visual aspect
  - Positive for faith and motivation
- Too late
  - Player control and animation
  - Cars and city traffic
  - Load and Save

## Platform change summary

- It was difficult, but possible
- Now we have
  - More experience
  - Our own proven multiplatform tech

### Technology – lessons learned

- Creating new technology takes time
- Be honest with your estimates and plans
- Build your tech foundation right
- Prototyping anyhow, anywhere but soon
- Tools and pipelines really save time

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# Design and level design

# Story vs. Gameplay

- Story directs the game
  - Narrative experience
  - Clash with open world
  - Difficult for gameplay
  - Story written in isolation
    - Before the game
    - Before the features

# Script

 600 pages of story
 (4 movies)

+generic speech The PROSTITUTE gives him a smile. PROSTITUTE 1 Hi there yourself, handsome. Joe ain't here right now. He said for you to meet him for lunch at Freddy's. Vito is gazing at her. VITO I see. PROSTITUTE 1 (examines Vito Too bad you were passed out when I came in. We coulda partied. Maybe next time, doll. Bye. Turns around and leaves. Vito mumbles under his breath: VITO Well, that was somethin'. INT. JOE'S APARTMENT - MORNING Vito is alone in the apartment. His task is clear: he needs to go to Freddy's Bar at lunchtime. First, he has to get dressed and grab other stuff. Once dressed and equipped with the required items, Vito may head out. The car he drove to Freddy's Bar yesterday is parked in the EXT. EMPIRE CITY - MORNING norking lot next to the building. Vito may go to receive

## Gameplay preproduction

- Theoretic paper designs
- Great ideas but not proven in-game
- Minimal/no prototyping
- Massively underestimated

# High demands on quality

- Goal to make only "perfect" mechanics
- Consequence:
  - Longer development time for features
  - Use of features too complicated
  - Many features cut (as not good enough)

### Gameplay feature list

- Main gameplay mechanics
  - Shooting weapons and AI
  - Driving and city traffic
- Supporting gameplay mechanics
  - City interactions civilians, shops, flats
  - Melee fight

## Level design preproduction

- No gameplay mechanics ready
  - Not possible to "play" levels until very late
  - Workarounds with scripting
  - Too difficult to use city for gameplay
- Focus on story and visuals
  - Gameplay "injected" afterwards

### Production of playable levels

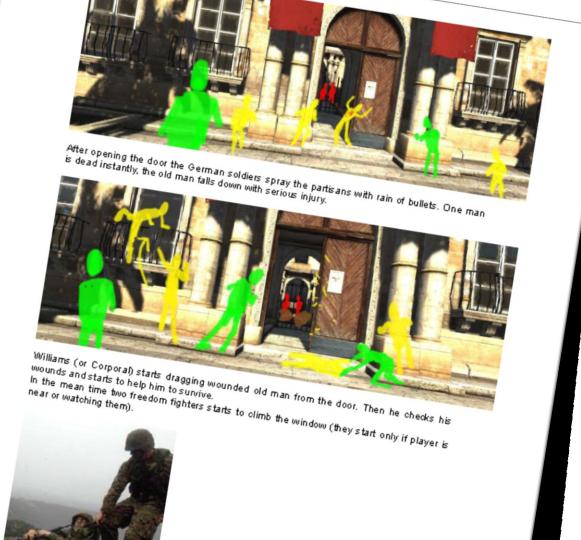
- Fit into existing geometry and cut-scenes
  - Frustrate artists and animators with changes
  - Uneasy solutions

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# Docume

#### Level screenpla

Level videos



### Tweaking every minute

- Designers/producers
- In-house QA
- External QA
- Publishing/External consultants
- User testing onsite lab
- User testing external suite

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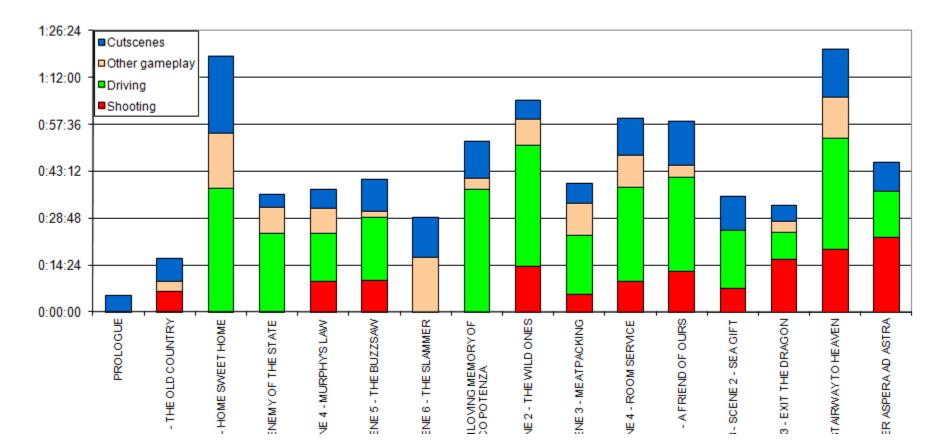
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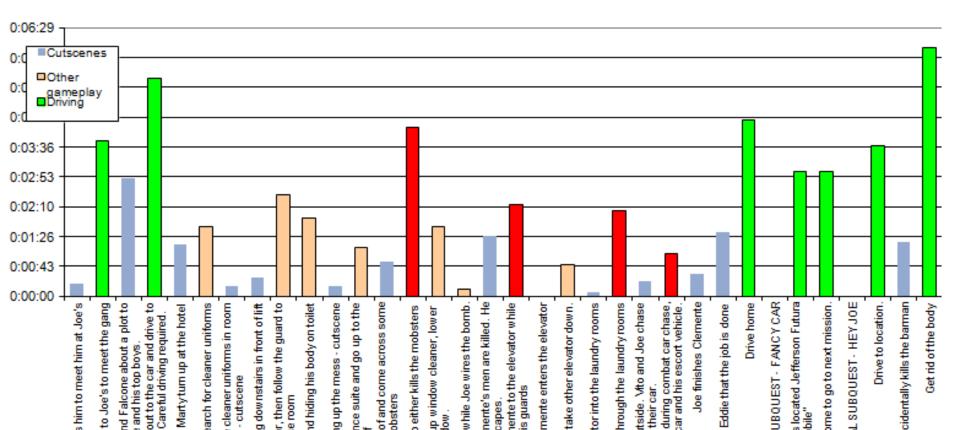


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		2			•	•	•	•		
1 2	2 3		В	D	E	F	G	Н	K O S AI	AM
		14	Description	Length	Cutscene length	Shooting time	Driving time	Other gameplay	DETAILS WINGMEN GAMEPLAY TIME AND WEATHER	
+		15	PROLOGUE	0:05:00	0:05:00					
+		17	ACT 1 - SCENE 1 - THE OLD COUNTRY	0:21:33	0:07:06	0:06:13	0:00:00	0:03:03		
_		28	ACT 1 - SCENE 2 - HOME SWEET HOME	1:17:47	0:23:33	0:00:00	0:37:57	0:17:00		
T.		29	Vito arrives at station - home from the army	0:00:58	0:00:58					
		30	Joe drives Vito from the train station - scripted drive showing city	0:02:26	0:02:26					
		31	<u>Vito and Joe catch up in Fredi's bar.</u>	0:01:56	0:01:56					
.		32	Vito travels to his mother's house - taxi driver hails him outside Fredi's. NB - There is an event limiting movement to Little Italy.	0:04:13				0:04:13		
		33	Vito has dinner with Francesca and Mama	0:02:36	0:02:36					
·		34	Vito goes to his room to get changed out of uniform	0:03:28				0:03:28		
.		35	Vito sees Francesca being threatened by the debt collector	0:00:11	0:00:11					
		36	Fight with the debt collector	0:01:17				0:02:00		
		37	Francesca tells Vito the truth about the debt, Vito says he will help	0:01:03	0:01:03					
.		38	Vito travels to Joe's apartment on foot.	0:02:50			0:02:50			
		30	Vito and Joe meet up at Joe's apartment	0:01:39	0:01:39					

Mafia 2 Gameflow (you must hide details in the "Overview" sheet to see this chart)



#### ACT 2 - SCENE 4 - ROOM SERVICE



# Turning point - DLC

- All features working
- City ready for use for quests
- Classical level design process:
  - Concept story and gameplay
  - Paper level design
  - Playable prototype (+iterations)
  - Production and finalizing



#### Design – lessons learned

- Prototype, prototype, prototype
  - Everything playable before level design starts
- Interactivity systems over scripting
- Have enough mechanics for your game
  - Key gameplay mechanics high quality
  - Supporting gameplay mechanics simpler

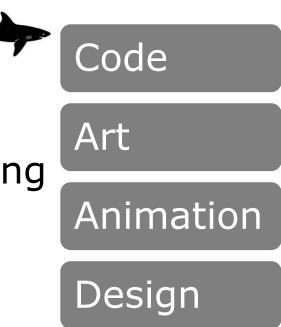
### Level design – lessons learned

- Prototype, prototype, prototype
  - Everything playable before production starts
- Involve artist and animators
  - To help with their expertise
- Level design and story
  - Develop together in synergy
- Experience over gameplay and sto

## Expanding the team

### Team on start

- Size ~20
- Structured by disciplines
- Talented, dedicated, hardworking
- No management needed
- Effective



### Next gen $\rightarrow$ bigger team

- Size ~75
- Structured by disciplines
- Talented, disconnected
- Management needed
- Ineffective



### Need of middle management

- Lack of industry veterans in CZ
- Leaders
  - Best experts in their fields
  - But just learning how to lead people
- Planners (development mangers)
  - New to game development industry

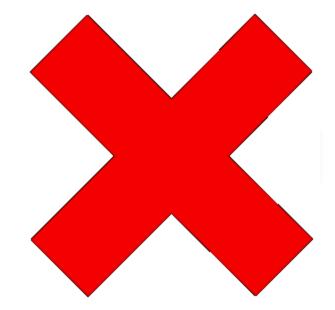
### Imagine

- Overwhelmed leaders
  - Don't have time to focus on details
- Helpless planners
  - Struggle with time estimates, order of tasks
- Confused people
  - Don't know what to do



### Solutions?

- More leaders
- More planners
- More people
- More meetings
- More emails
- Different planning software



### Restructure in 2008

- City team
- Mission team
- AI team
- Player team
- Traffic team
- Art team
- Animations team
- Tech team
- Editor team

• QA

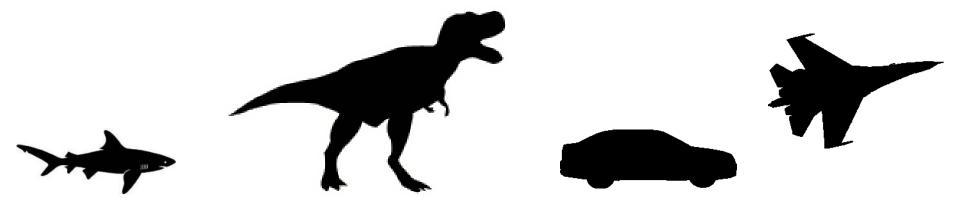
### Production team

• Size ~150



- Structured by topics
- Talented, hardworking, more independent
- More ownership and responsibility
- Planned, managed within mini-teams
- Effective

### **Evolution of 2K Czech**



## MAFIAN

### Expanding team - lessons learned

- Clear plan goals and priorities
- Clear workflow how to achieve it
- Build tools to let people work faster
- Armies of people not so effective
- Balanced autonomous mini-teams

# Conclusion

### Major problems

- Lack of realism, honesty and criticism
  - Too bad for planning and decision making
  - Continual deception
    "In 6 months it's finished"
- Lack of experience
  - "If we would know..."

### What held the faith

- Mafia1 historic success
- Theme organized crime in USA
- Art realistic, beautiful
- Cinematic movie like feel

### Success on the end!

- New team structure and processes
- Beta, Master hit on time
- Submission on first attempt
- Sim ship on 3 platforms and 8 languages

### • DLC – on time & budget



### Looking back on Mafia II

- Project of big scope and ambitions
- Underestimated dev challenges
- Proud of what we achieved
- Many lessons learned



# Questions?



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