



2009

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# **MATT BOOTY – PRESIDENT AND CEO**

Midway Games

[www.midway.com](http://www.midway.com)

# Midway Line-up

## Established Franchises



## High-Potential New IP/Licenses







Pong Released by Atari Games

Midway #1 US Coin-Op Manufacturer



Midway IPO



Atari Games Acquisition

Midway is 2nd Largest Independent Home Videogame Publisher



NHL Hitz First Xbox Title Released



MKDA released 1 Million units sold in 1.5 Months



Blitz: The League First Xbox360 Title Released



1976 1988 1992 1995 1996 1998 1999 2000 2001 2002 2003 2004 2006

Williams Acquires Bally Midway



Midway Enters Home Videogame Market

Mortal Kombat #1 Home Videogame



Spin-Off from WMS



First PS2 Title Ready 2 Rumble Top 10 Launch



Exit Coin Op Business



NHL Hitz First GameCube Title Released



Midway Acquires Austin Studios



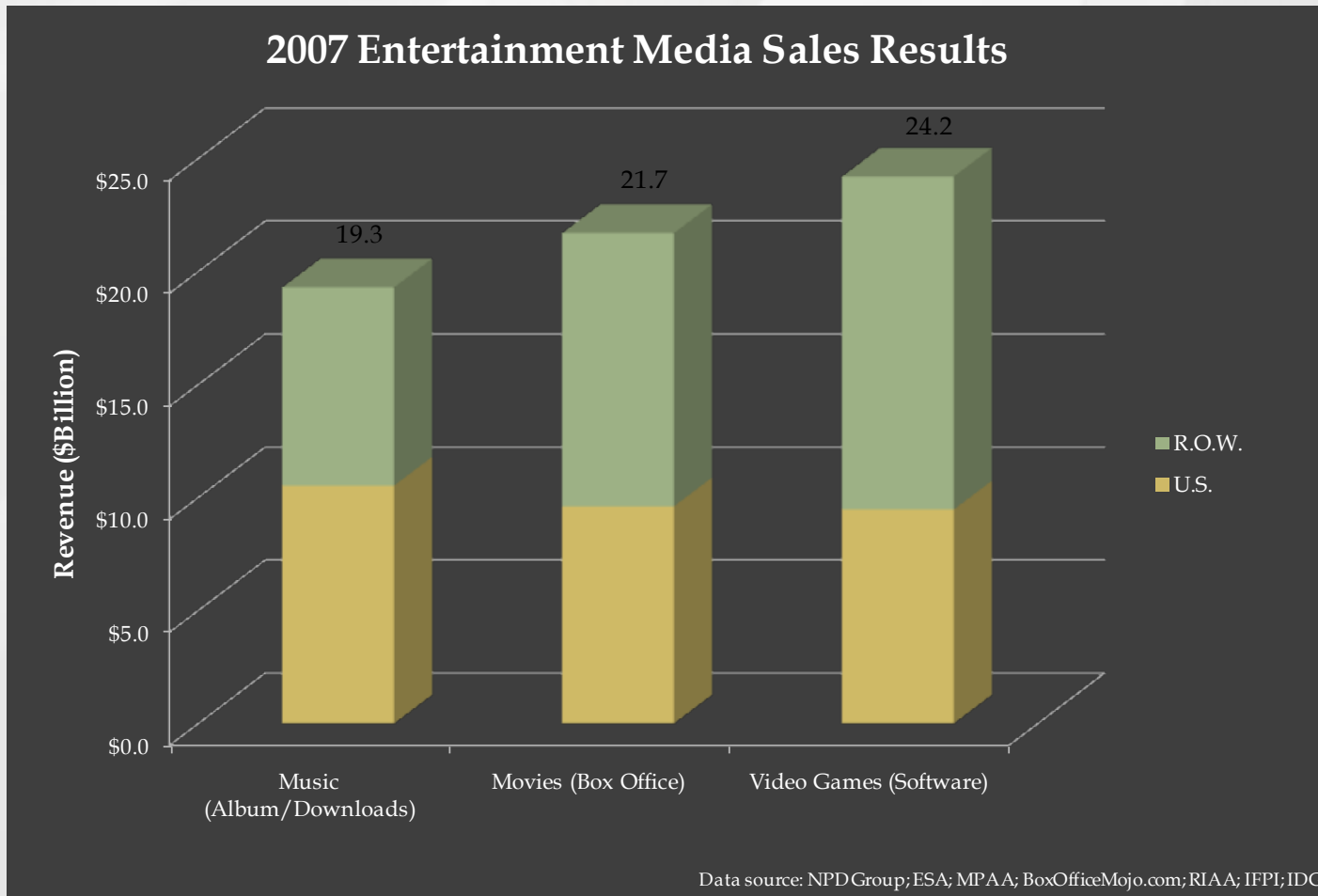
Midway Acquires LA Moorpart Studios



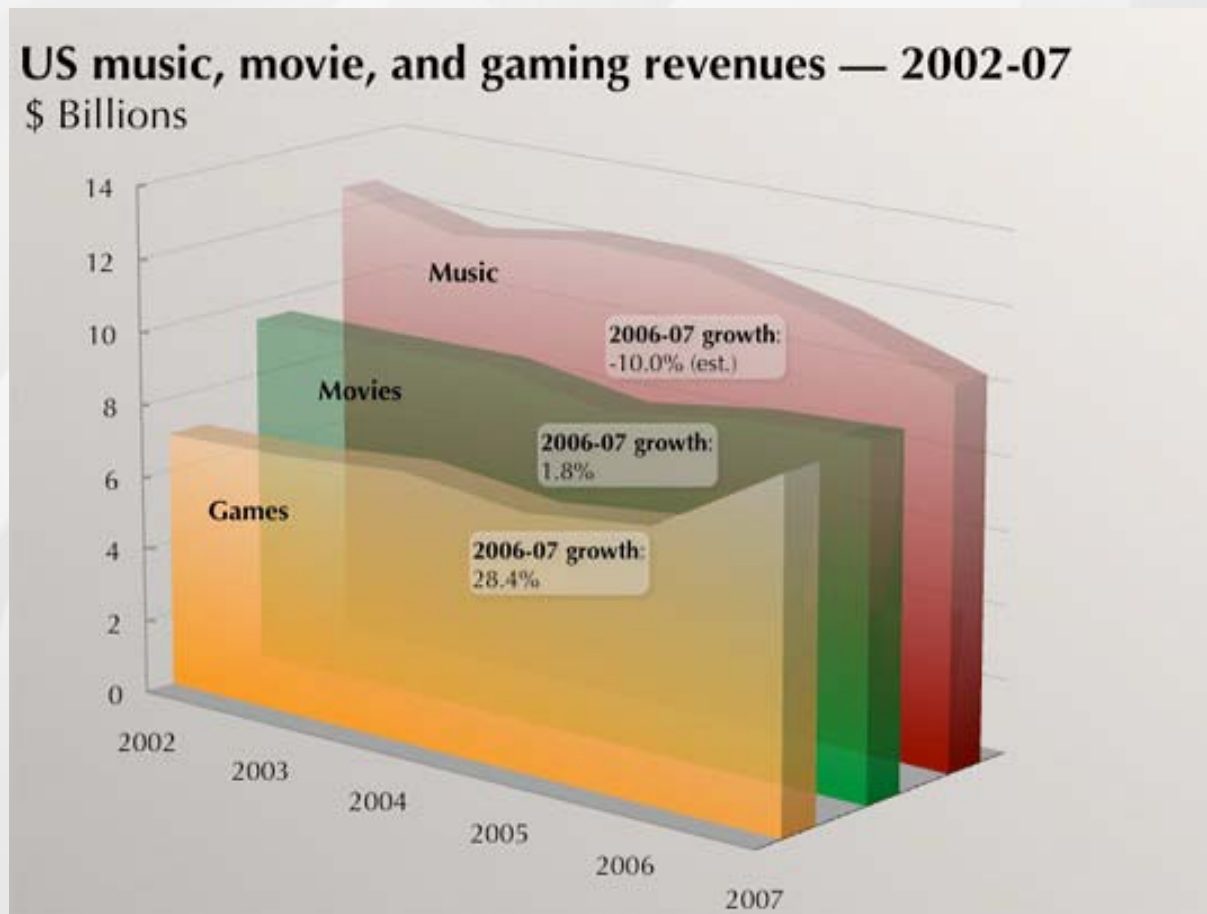
Midway Acquires Seattle Studios



# Video Game Revenue Outpaces Other Entertainment Media

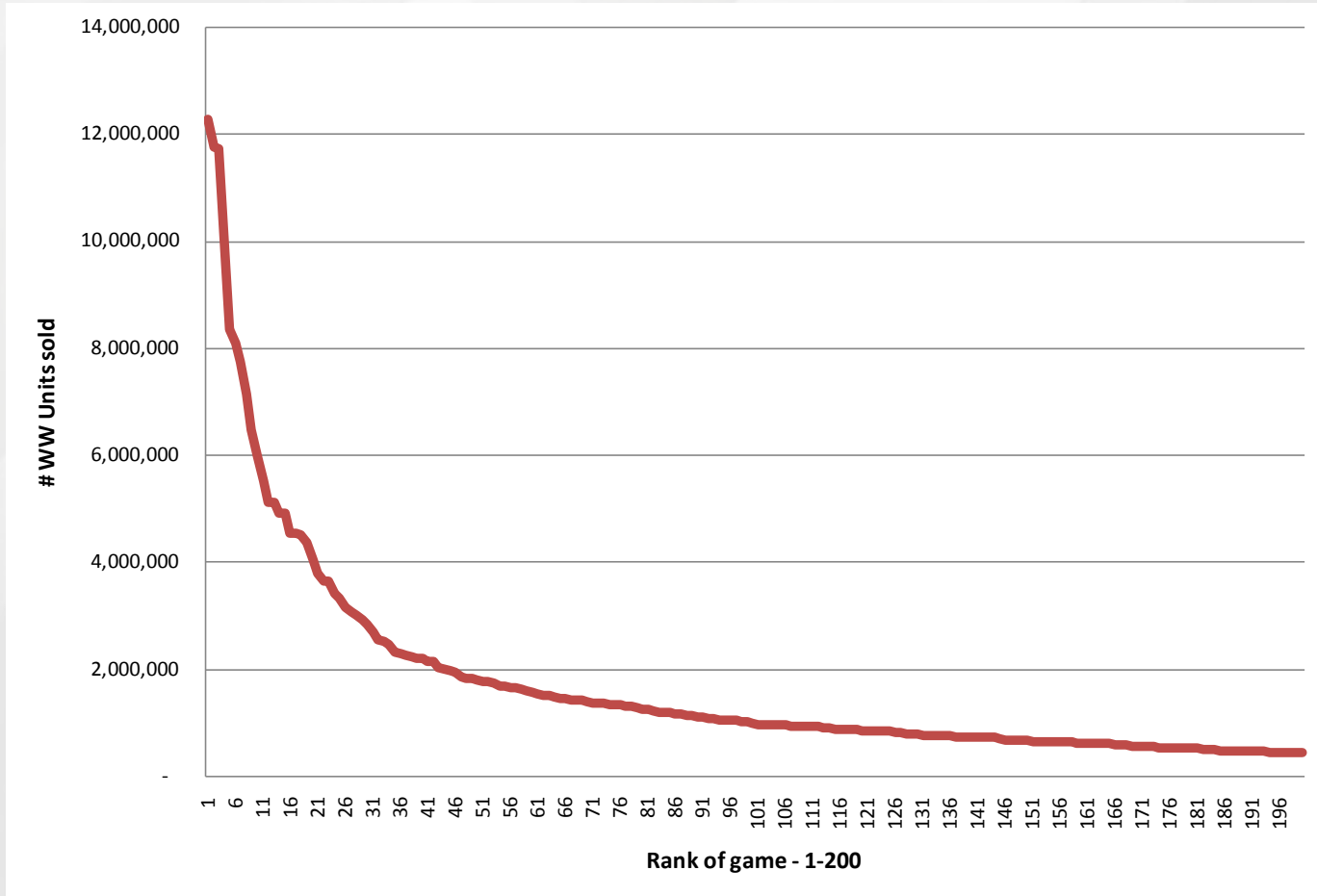


# Video Games Are Growing Faster Than Other Entertainment Media



Data source: NPD Group; ESA; MPAA; BoxOfficeMojo.com; RIAA; IFPI

# 20% of games make up 80% of the market





# 2007 Top 20 Titles

These games accounted for 20% of all units and 30% of all dollars

## 2007 US VIDEO GAME SALES (ALL PLATFORMS)

	TITLE	PUBLISHER	REL DATE	2007 UNITS	2007 DOLLARS
1	GUITAR HERO III: LEGENDS OF ROCK	ACTIVISION BLIZZARD	Oct-07	5,927,947	491,378,832
2	MADDEN NFL 08	ELECTRONIC ARTS	Aug-07	5,744,380	269,877,961
3	HALO 3	MICROSOFT	Sep-07	4,862,071	323,577,730
4	CALL OF DUTY 4: MODERN WARFARE	ACTIVISION BLIZZARD	Nov-07	4,430,672	243,256,655
5	PLAY W/ REMOTE	NINTENDO	Feb-07	4,125,325	204,549,900
6	GUITAR HERO 2	ACTIVISION BLIZZARD	Nov-06	3,422,400	265,146,591
7	ASSASSIN'S CREED	UBISOFT	Nov-07	2,657,337	155,589,385
8	SUPER MARIO GALAXY	NINTENDO	Nov-07	2,531,534	123,390,100
9	POKEMON DIAMOND VERSION	NINTENDO	Apr-07	2,486,913	85,774,150
10	WORLD OF WARCRAFT: BURNING CRUSADE XP	ACTIVISION BLIZZARD	Jan-07	1,912,437	73,093,381
11	SPIDER-MAN 3	ACTIVISION BLIZZARD	Apr-07	1,837,872	73,738,640
12	MARIO PARTY 8	NINTENDO	May-07	1,821,915	90,045,020
13	POKEMON PEARL VERSION	NINTENDO	Apr-07	1,758,361	60,862,400
14	NCAA FOOTBALL 08	ELECTRONIC ARTS	Jul-07	1,674,161	81,892,703
15	LEGO STAR WARS II: THE ORIGINAL TRILOGY	LUCASARTS	Sep-06	1,652,033	40,803,093
16	WWE SMACKDOWN VS. RAW 2008	THQ	Nov-07	1,620,141	78,621,728
17	TRANSFORMERS: THE GAME	ACTIVISION BLIZZARD	Jun-07	1,488,104	60,619,861
18	NEW SUPER MARIO BROS	NINTENDO	May-06	1,485,078	50,633,100
19	LEGEND OF ZELDA: TWILIGHT PRINCESS	NINTENDO	Nov-06	1,380,408	68,378,100
20	MADDEN NFL 07	ELECTRONIC ARTS	Aug-06	1,343,768	47,239,946
			TOTAL	265,394,721	9,451,512,135

# Midway is a Top Publisher

## Top 20 Publishers of 2008

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- |                                |                                |
|--------------------------------|--------------------------------|
| 1. Nintendo                    | 11. Konami                     |
| 2. Electronic Arts             | 12. Vivendi Games              |
| 3. Activision                  | 13. Namco Bandai Games         |
| 4. Ubisoft                     | 14. Capcom                     |
| 5. Sony Computer Entertainment | 15. NCSOFT                     |
| 6. Take Two                    | 16. Disney Interactive Studios |
| 7. Sega of America             | 17. LucasArts                  |
| 8. THQ                         | 18. Codemasters                |
| 9. Microsoft Game Studios      | 19. Eidos Interactive          |
| 10. Square Enix                | <b>20. Midway</b>              |

**Rankings by Game Developer Magazine based on a wide-ranging reputation survey alongside revenue, average review, and anonymous partner feedback**

# Recent Releases - 2006





# Recent Releases - 2007



# Famous Franchises





# **Programming for Video Games: Misconceptions and Facts**



# Fun and Games

- Myth:
  - Play games all day
- Facts:
  - It's a very hard job
    - Requiring many hours of hard work
    - Requiring continuing learning and education
  - Work on the same project day-in, day-out isn't all fun and games
    - Devil in the details
    - Every interaction, effect needs to be implemented

# One Person Show

- Myth:
  - Programmers make the game
- Fact:
  - Actually it takes a team of 40-60
    - 15 programmers
    - 20 artists
    - 10 designers
    - 10-20 additional people from central teams
      - Specialize artists
      - System programmers
      - Sound Composers

# Cooking from Scratch

- Myth:
  - Programmers write and design a lot of code
- Facts:
  - Companies have large established code bases
    - Many problems or systems have been implemented before on previous titles
    - It's inefficient to re-implement new technology
  - Many companies license specialized systems
    - Rendering engines
    - Physics engines
    - AI systems
    - Audio systems

# Graphics and A.I.

- Myth:
  - I would like to implement the next graphics system
- Facts:
  - Most of the work deals with optimization
    - Graphics programming deals more with data layout, cache misses and bus stalls
  - Graphics is becoming a commodity item
    - ATI, Nvidia have many shader fragments to use
    - Following the trend of Audio
  - Taking an OpenGL or Direct X class gives a false sense of security of knowledge
    - Many things are abstracted from the user
    - Clipping, transformations, coordinate systems

# Getting in the Game

- Myth:
  - Need to have a demo game to get into this industry
- Facts:
  - How do you do that if you don't work for a game company?
    - Work on open source projects
    - Demonstrate problem solving skills or expert knowledge
  - Specialize in an area that is related to the game industry
    - Low-Level optimization
    - Multi-processor development
    - Networking

# Division of Labor

- **Game Team Programming**
  - Creating the game using tools and systems that exist
  - Rapid development for specific game use
- **Technology Systems & Tools**
  - Create OS enhancements to engines
  - Low-level / High-level systems
  - Pipeline tools for artists and developers



# Advanced Technology Group (ATG)

- Central Technology Team
  - Not physically on a specific game team
    - Instead work with game teams
    - Supply Technology to game teams
  - Local support to Chicago
  - Large system development across different Studios
- 3 Roles
  - Engine Development
  - Tools Development
  - Consulting to teams
- Outsourcing
  - Leadership and architecture direction
  - Increase engineering output

# ATG Recent Development

- Game development (Stranglehold):
  - Networking
  - Audio
  - Graphics
  - Optimizations
  - Physics
  - Data conversion
  - Cinematics
  - Dynamic Advertisement
  - Movie Player
- Studio Wide
  - Cinematics
  - Physics
  - Audio
  - Movie Player
  - UI

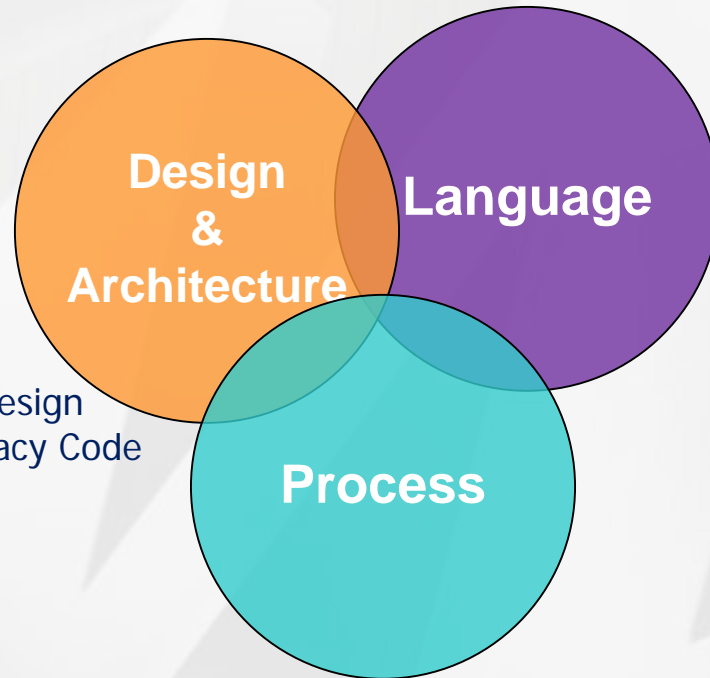
# Embedded Systems

- Consoles are embedded systems; not PCs
- Embedded issues are:
  - Memory
  - Cache
  - Buses
  - Alignment
  - Performance
  - Data Streaming

# Consoles vs. PCs

- Xbox 360
  - CPUs
    - Custom PowerPC CPU
    - 3 symmetrical cores at 3.2 GHz
    - 2 hardware threads / core
    - 1 MB L2 cache
  - RAM
    - 512 MB (unified)
    - 10 MB embedded video buffer
  - Graphics
    - ATI Shader 3 (DX-9)
    - 500 MHz ATI
- PS3
  - CPUs
    - 1 - IBM PowerPC
      - 3.2 GHz
      - 512 KB L2 cache
    - 7 – SPE
      - 3.2 GHz
      - 256 KB per SPE
  - RAM
    - 256 MB system
    - 256 MB video
  - Graphics
    - Nvidia Shader 3 (DX-9)
    - 550 MHz

# Software Architect Skills



## Refactoring

Refactoring to Patterns  
Designs Patterns  
UML Distilled  
Domain Design  
Fundamentals of OO Design  
Large Scale C++ Software Design  
Working Effectively with Legacy Code

## Effective C++

More Effective C++  
Effective STL  
Expert C  
C++ Templates  
C++ Strategies and Tactics  
Exceptional C++  
More Exceptional C++  
Exceptional C++ style  
Efficient C++  
Modern C++  
STL Tutorial and Ref Guide  
C++ Gotchas

## Pragmatic Programmers

XP extreme programming  
Agile process  
Code Complete  
Writing Solid Code

Mythical Man Month  
Test Driven Development  
Death March  
Performance Solutions  
Software Craftsmanship

# Desired Skills

- **Mastery of C++**
  - Dynamic Memory Usage
    - New, Delete
    - Fix Memory pools
  - STL (Standard Template Library)
    - Containers
      - Vector, Map, Queue, List
    - Iterators
    - Generic Algorithms
  - Template Programming
- **Embedded Software**
  - Restrictions / Constraints
  - Debugging
  - Understanding memory layout
  - Language side effects



# Desired Skills

- Working with Legacy Code
  - Understand a lot code not written by you
  - Refactoring
    - Modifying and extending existing code
- Object Oriented Design
  - Fundamentals of OO
    - Inheritance
    - Overloading
    - Encapsulation
    - Polymorphism
  - Design Patterns

# Programming Trends

- **Scripts**
  - Easy to create
  - Decoupled from low-level details
  - Data driven and downloadable
  - 90 – 10 rule
    - 90% of the game is going through 10% of the code
- **Graphical programming**
  - Enable designers and artists to create more complex behavior through a visual model
- **Multi-processor / Multi-threaded**
  - Fighting physics on a silicon level
  - Add more threads and more processors to increase performance

# What we are looking for?

- Teamwork, Community, Culture
- Smart
  - Ability to understand and work on hard concepts
- Aggressive
  - The resolve to stay with a problem
  - Investigate, experiment, drive towards the end result
- Responsible
  - Takes ownership of the outcome
  - Taking responsibility into systems that affect your result
  - Stand behind the work
- Problem Solvers
  - Solves the correct problem, hopefully only once!
  - Lets data drive toward real issues not emotions

# Take Away

- Most software development is refactoring
  - Write software with maintenance issues in mind
    - Create robust, clean modular code that can be easily understood by your peers
- Care about your craft
  - Continue to read, learn and experiment
  - It's never over...

# Headcount - ~550 employees

Department	Percent of Workforce
Product Development	74%
Sales and Marketing	9%
Finance and Accounting	7%
Other Corporate and Ops	10%
<b>Total</b>	<b>100%</b>



# STUDIO LOCATIONS

# Chicago – Worldwide Headquarters





# Seattle, WA





# Newcastle, UK



# San Diego, CA

