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HE DEAL DIARIES FOURTH CHAPTER: ARCADE GAMES

LET'S TAKE THIS TIME TO LOOK BACK AT OUR INDUSTRY'S RICH HISTORY AND FUTURE!

ARE YOU READY FOR THE ADRENALINE RUSH?

## HE ORIGIN:

The "Galaxy Game" is the earliest known coin-operated video arcade game arcade games.

many different industries, including scientific, computer, amusement, and consumer electronics. merchandisers.

An arcade game is a coin-operated entertainment machine typically installed in public businesses such as restaurants, malls and amusement centres. Most arcade games are video games, pinball machines, electro-mechanical games, redemption games or While exact dates are debated, the golden age of arcade video games is usually defined as a period around the late 1970s.

The evolution of video arcade games represents

The first popular 'arcade games' included early amusement-park midway games such as shooting

galleries, ball toss games, and the earliest coin-operated machines, such as those that claimed to tell a person's fortune or that played mechanical music. This can be found even today. The old Midways of 1920s-era amusement parks, such as Coney Island in New York, provided the inspiration and atmosphere for later In the 1930s, the first coin-operated pinball machines emerged. These early

Despite the negative connotations of the coin operated industry in the preceding decades of the 1950s and the 1960s, by the 1970s, those in the industry were working towards professionalization and changing the perception as a legitimate business. Two major trade journals RePlay Magazine published in 1975 and Play Meter published in 1974 offered profiles on industry professionals

amusement machines differed from their later electronic cousins which were made

updates on industry news helped that professionalize the industry.

Japan, Europe, and North America, where it was the first arcade game to cost a quarter per play, which would remain the standard price for arcade games for many years to come. In 1967

game

that

. HRCADE GAMES WITH NEW TECHNOLOGY

In 1966 Sega introduced an electro-mechanical game called Periscope - an early submarine

simulator and light gun shooter which used lights and plastic waves to simulate sinking ships from a submarine. It became an instant success in

association football, using various electronic components, including electronic versions of pinball flippers. Sega later produced gun games resembled first-person shooter video games, but which were in fact electro-mechanical games that used rear image projection in a manner similar to the ancient zoetrope to produce moving animations on a screen. The first of these, the light-gun game Duck Hunt, appeared in 1969; it featured animated moving targets on a screen, printed out the player's score on a ticket, and had volume-controllable sound-effects. Within that same year, Sega released an electro-mechanical arcade racing game, Grand Prix, which had a first-person view, electronic sound, a dashboard with a racing wheel and accelerator, and a forward-scrolling road projected on a screen. During the 1970s, following the release of Pong in 1972, electronic video-games gradually replaced electro-mechanical arcade games. In 1972, Sega released an

appearing in the 1975 film Jaws. In 1974, Nintendo released Wild Gunman, a light-gun shooter that used full motion video-projection from 16mm film to display live-action

powerful

and Allan Alcorn in 1973 with a Pong console at the

In 1971 students at Stanford University set up the Galaxy Game, a coin-operated version of the video game Spacewar. This ranks as the earliest known instance of a coin-operated video game. Later in the same year Nolan Bushnell created the first mass-manufactured game, Computer Space, for Nutting Associates.

> Taito's Space Invaders, in 1978, proved to be the first blockbuster arcade video game. Its success marked the beginning of the golden age of arcade video games. Video game arcades sprang up in shopping malls, and arcades'

> restaurants, grocery stores, bars and movie

Most games in this period were designed by Japanese companies such as Namco and Taito but licensed by American game developers such as Midway Games and Atari.

During the late 1970s and 1980s, chains such as Chuck E. Cheese's, Ground Round, Dave and Busters, ShowBiz Pizza Place and Gatti's

appeared

'corner



PERISCO

theaters all over the United States, Japan, Hong Kong and other countries during the late 1970s and early 1980s. Space Invaders (1978), Galaxian (1979), Defender (1980), and Bosconian (1981) were especially popular. By 1981, the arcade video game industry was worth US\$8 billion (\$22.5 billion in 2019).

Pizza combined the traditional restaurant or bar environment with arcades. By the late 1980s, the arcade video game craze was beginning to fade due to advances in



Arcades experienced a major resurgence with the 1991 release of Capcom's Street Fighter II, which popularized competitive fighting games and revived the arcade industry to a level of popularity not seen since the days of Pac-Man, setting off a renaissance for the arcade game industry in the early 1990s. Its success led to a wave of other popular games which mostly were in the fighting genre, such as Pit-Fighter (1990)

> popularity so much by the late 1990s, that revenues in the United States dropped to US\$1.33 billion in 1999, and reached a low of \$866 million in 2004. The gap in release dates and quality between console ports and the arcade games they were ported from dramatically narrowed, thus setting up home consoles as a major competitor with arcades. Furthermore, by the early 2000s, networked gaming via computers and then consoles across the Internet had also

> > replacing

competition

the

venue

and Nintendo 64, began offering true 3D graphics, improved sound, and better 2D graphics, than the previous generation. By 1995, personal computers followed, with 3D accelerator cards. CHALLENGES IN 1990'S Arcade video games had declined in

appeared,

The arcade market suffered from a lack of diversity even compared to other gaming

head-to-head

By 1994, arcade games in the United States were generating revenues of \$7 billion in quarters which is equivalent to \$12.1 billion in 2020, in comparison to home console game sales of \$6 billion, with many of the best-selling home video games in the early 1990s often being arcade ports. Combined, total US arcade and console game revenues of \$13 billion in 1994 which is approximately \$22.4 billion in 2020, was nearly two and a half times the \$5 billion revenue grossed by movies in the United States at the time.

Around the mid-1990s, the fifth-generation home consoles, Sega Saturn, PlayStation,

minutes of play for a typical arcade game, and renting, at about the same price, exactly the same game-for a video game console-the console became the preferred choice. Fighting games were the most attractive feature for arcades, since they offered the prospect of face-to-face competition and tournaments, which correspondingly led players to practice more (and spend more money in the arcade),

To remain viable, arcades added other elements to complement the video games such as redemption, merchandiser games and food service, typically snacks and fast food. Referred to as 'fun centers' or 'family fun centers', some of the longstanding chains such as Chuck E. Cheese's and Gatti's Pizza (GattiTowns) also changed to this

Many 1980s-era video game arcades have long since closed, and classic

but they could not support the business all by themselves.

coin-operated games have become largely the province of dedicated gamers and hobbyists. In the 2010s, some movie theaters and family fun centers still had small arcades. HRCADE TRANSFORMATION BETWEEN 2000-2010

In the 2000s and 2010s, arcades found a niche market by providing games that use special controllers largely inaccessible to home users, such as dance games that have a floor that senses the user's dancing. An alternative interpretation is that the arcade was now a more socially-oriented hangout, with games that focus on an individual's performance, rather than the game's content, as the primary form of novelty. Some examples of today's popular genres are rhythm games such as Dance Revolution Dance (1998)DrumMania (1999), and rail shooters such as Virtua Cop (1994), Time Crisis (1995) and House of the Dead (1996). Some genres, particularly dancing and rhythm games (such as Konami's Dance Dance Revolution), continue to be popular in arcades.

Original **Gross revenue Franchise** release Total hardware units sold (US\$ without inflation) year Pac-Man 1980 526,412 (up to 1988) \$3.853 billion (up to 1999)

500,000 (up to 2002)

\$2.312 billion (up to 1993)

\$2.702 billion (up to 1982)

\$850.79 million (up to 1999)

\$1 billion (up to 2002)

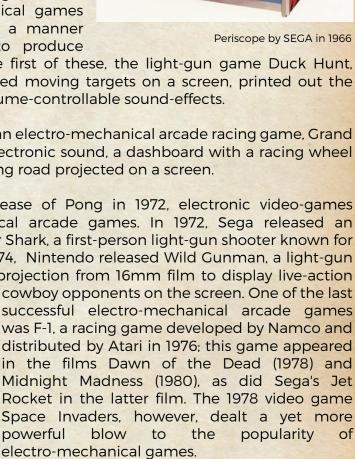
\$1 billion (up to 1995)

\$530 million (up to 2007)

\$706.014 million (up to 2012)

Arcade games at the Magic Planet in one of the Malls in UAE

Arcade games at the VR park in Dubai The future of arcades industry is bright and it will keep evolving as it has done over the decades. The key thing moving forward would be to focus on the player's interaction levels and complete engagement with the game. This will be a very important factor for the gaming conceptualisers and also the manufacturers to consider, especially in keeping with the current lifestyle, trends and mindsets of its target audience. UAE and the GCC region currently has some of the most interactive and sophisticated arcade games and it is currently spread



of wood. They lacked plungers or lit-up bonus surfaces on the playing field, and used mechanical instead of electronic scoring-readouts. By around 1977 most pinball machines in production switched to using solid-state electronics both for operation and for scoring.

Taito released an electro-mechanical arcade game of their own, Crown Soccer Special, a sports

Ted Dabney, left, Nolan Bushnell, Fred Marincic

Atari offices in Santa Clara, California

In 1972 Nolan Bushnell and Ted Dabney formed Atari. Atari essentially invented the coin-operated video game industry with the game Pong that was released in November 1972, the first successful electronic ping-pong video game. Pong proved popular, but imitators helped to keep Atari from dominating the fledgling coin-operated video-game market. Nolan Bushnell also visited the DEAL Dubai show SOLDEN AGE OF ARCADE VIDEO GAMES

ARCADE VIDEO GAMES

by Atari, Mortal Kombat by Midway Games among others. In 1993, Electronic Games noted that when 'historians look back at the world of coin-op during the early 1990s, one of the defining highlights of the video game art form will undoubtedly focus on fighting/martial arts themes which it described as 'the backbone of the industry' at the time.

markets, a 1996 survey showed that 70% of arcade players were teenage males, leading to a cycle in which the uniformity of the audience discouraged innovation in game design, which in turn further discouraged people outside the narrow target audience from visiting arcades. The arcades lost their status as the forefront of new game releases. Given the choice between

format.

A 20th anniversary arcade machine, combining the

atmosphere once provided solely by arcades.

two classic games Ms Pac-Man and Galaga.

playing a game at an arcade three

or four times, perhaps 15

A man playing a drumming arcade game, Drummania in Japan in 2005.

Space Invaders 1978 360,000 (up to 1980) **Asteroids** 1979 136,437 (up to 1999) Defender 1981 75,000 (up to 2002) Mortal Kombat 1992 51,000 (up to 2002) Mushiking 2003 13,500 (up to 2005) World Club 2012 2,479 (up to 2015) Champion Football

1987

Street Fighter



FUTURE OF ARCADES:

Worldwide, arcade game revenues gradually increased from US\$1.8 billion in 1998 to US\$3.2 billion in 2002, rivalling PC game sales of US\$3.2 billion that same year. In particular, arcade video games are a thriving industry in China, where arcades are widespread across the country. The US market had also experienced a resurgence, with the number of video game arcades across the nation increasing from 2,500 in 2003 to 3,500 in 2008, though this is significantly less than the 10,000 arcades in the early 1980s. As of 2009, a successful arcade game usually sold around 4000 to 6000 units worldwide. **ARCADE ACTION GAMES** The term 'arcade game' is also used to refer to an action video game that was designed to play similarly to an arcade game with frantic, addictive gameplay. The focus of arcade action games is on the user's reflexes, and the games usually feature very little puzzle-solving, complex thinking, or strategy skills. Games with complex thinking are called strategy video games or puzzle video games. In addition to restaurants and video arcades, arcade games are also found in bowling alleys, college campuses, video rental shops, dormitories, laundromats, movie theaters, supermarkets, shopping malls, airports, ice rinks, corner shops, truck stops, bars, pubs, hotels, and even bakeries. In short, arcade games are popular in places open to the public where people are likely to have free Virtua Cop Game in the mid 1990's. time. OME BEST-SELLING ARCADE VIDEO GAME FRANCHISES