

# The Technologies of Video Game INdUSECH ICAN - 2017













# In The Name Of God



Vice Presidency for Science and Technology

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#### **Production**

# **Pre-production**

#### knowledge of creativity and ideation

22, 23, 24, 25, 27, 28, 29, 30, 32, 33, 34, 35, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 54, 55, 56, 57, 59, 60, 61, 62, 64, 65, 66, 67, 68, 69, 71, 72, 73, 74, 75, 76

#### **knowledge of Technical Document Creation**

22, 23, 24, 25, 27, 28, 29, 30, 32, 33, 34, 35, 38, 41, 42, 44, 45, 46, 47, 49, 50, 51, 52, 56, 57, 60, 61, 62, 64, 65, 66, 69, 71, 72, 73, 74, 75

#### knowledge of Art Document Creation

23, 24, 25, 27, 28, 29, 30, 32, 33, 34, 35, 38, 39, 41, 42, 44, 45, 47, 48, 49, 50, 54, 56, 57, 58, 61, 62, 64, 65, 66, 67, 70, 71, 72, 74, 75, 76

#### knowledge of game design Creation

36, 39, 66

#### knowledge of Core game design

22, 23, 24, 25, 27, 29, 30, 31, 32, 33, 34, 35, 36, 38, 39, 40, 41, 44, 46, 47, 48, 50, 51, 52, 56, 58, 59, 60, 61, 62, 64, 65, 66, 68, 69, 71, 72, 73, 74, 75

#### knowledge of story development and creating story board

22, 24, 25, 27, 28, 30, 32, 33, 34, 35, 36, 41, 44, 46, 47, 48, 49, 50, 57, 58, 61, 62, 64, 65, 66, 68, 71, 72, 74, 76

#### knowledge of creating game narrative

24, 25, 27, 28, 30, 32, 33, 34, 35, 36, 39, 41, 44, 46, 47, 48, 49, 50, 52, 58, 61, 62, 64, 65, 66, 67, 68, 71, 72, 74, 76

#### knowledge of designing game levels

23, 24, 25, 27, 28, 29, 30, 31, 32, 33, 34, 35, 39, 41, 44, 46, 47, 48, 49, 50, 51, 52, 56, 57, 59, 60, 61, 62, 64, 65, 66, 67, 69, 71, 72, 73, 74, 75, 76

#### knowledge of designing AI

23, 25, 27, 28, 29, 30, 31, 32, 33, 34, 35, 38, 41, 42, 44, 46, 47, 50, 51, 52, 55, 56, 57, 59, 60, 61, 62, 64, 65, 66, 67, 69, 71, 72, 73, 74, 75

#### knowledge of designing user interfaces

22, 23, 24, 25, 27, 29, 30, 31, 32, 33, 34, 35, 39, 41, 42, 44, 46, 47, 49, 50, 51, 55, 56, 57, 58, 59, 60, 61, 62, 64, 65, 66, 67, 69, 71, 72, 73, 74, 75

# Production

#### knowledge of quality control

22, 23, 24, 25, 27, 28, 29, 30, 32, 33, 34, 38, 40, 41, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 56, 60, 62, 64, 66, 67, 68, 69, 71, 72, 73, 74, 75

#### knowledge of project management

22, 24, 25, 27, 28, 29, 30, 32, 33, 34, 35, 38, 39, 40, 41, 44, 45, 46, 47, 48, 49, 50, 51, 52, 54, 56, 57, 58, 59, 60, 61, 62, 64, 65, 66, 67, 68, 69, 71, 72, 73, 74, 75, 76

#### knowledge of improvement process management

25, 27, 28, 29, 30, 32, 33, 34, 35, 38, 40, 41, 44, 45, 47, 48, 49, 50, 52, 56, 60, 61, 62, 64, 66, 67, 68, 69, 71, 72, 73, 74, 75, 76

#### implementing core game design

22,23,24,25,27,28,29,30,31,32,33,34,35,36,38,39,40,41,42,44,45,46,47,48,50,51,52,56,57,58,59,60,61,62,64,65,66,67,69,71,72,73,74,75,76

#### implementing game narrative

22,23,24,25,27,28,30,32,33,34,35,36,38,39,40,41,44,45,47,48,49,50,52,54,57,58,59,61,62,64,65,66,67,68,70,71,72,73,74,75

#### implementing game levels

22, 23, 24, 25, 26, 27, 28, 29, 30, 32, 33, 34, 35, 36, 38, 39, 40, 41, 42, 43, 44, 45, 47, 48, 49, 50, 51, 52, 54, 56, 57, 58, 59, 60, 61, 62, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75

#### implementing Systems of the game

22, 23, 24, 25, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 38, 39, 40, 41, 44, 45, 47, 50, 51, 52, 54, 56, 57, 58, 59, 60, 61, 62, 64, 65, 66, 67, 68, 69, 71, 72, 73, 74, 75

#### implementing user interface

22, 23, 24, 25, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 38, 39, 40, 41, 42, 43, 44, 45, 47, 48, 49, 50, 51, 52, 54, 56, 57, 58, 59, 60, 61, 62, 64, 65, 66, 67, 68, 69, 71, 72, 73, 74, 75, 76

#### technical knowledge of using advanced tools (Digital drawing)

22, 23, 24, 25, 27, 28, 30, 33, 34, 35, 36, 38, 39, 40, 41, 42, 44, 45, 47, 48, 49, 50, 51, 52, 54, 57, 59, 60, 61, 62, 64, 65, 66, 67, 68, 69, 72, 73, 74, 75, 76

#### traditional drawing skills (paper drawing)

22, 23, 26, 27, 28, 29, 30, 33, 34, 35, 36, 38, 39, 41, 42, 44, 45, 47, 48, 50, 51, 56, 57, 59, 61, 62, 64, 65, 69, 70, 72, 73, 75, 76

#### **Modeling**

#### rigging

22, 24, 25, 27, 28, 29, 32, 33, 34, 35, 36, 38, 41, 42, 44, 49, 50, 52, 56, 57, 60, 61, 62, 64, 66, 67, 68, 69, 70, 72, 74, 75

#### texturing

22, 24, 25, 27, 28, 29, 32, 33, 34, 35, 36, 38, 41, 42, 44, 49, 50, 52, 56, 57, 60, 61, 62, 64, 65, 66, 67, 68, 69, 70, 72, 74, 75

#### animating

22, 23, 24, 25, 27, 28, 29, 32, 33, 34, 35, 38, 41, 42, 44, 49, 50, 52, 56, 57, 59, 60, 61, 62, 64, 66, 67, 68, 69, 72, 73, 74, 75, 76

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#### motion capture

25, 28, 34, 38, 41, 44, 52, 60, 64

#### 3D Printer and scanner

48, 52, 60, 64, 75

#### **Render Farm**

28, 41, 48, 60, 64, 65, 75

#### knowledge of special effects (VFX) implemention

24, 25, 27, 28, 29, 33, 34, 38, 41, 44, 47, 49, 60, 62, 64, 65, 66, 67, 71, 72

#### **Core Engine**

27, 29, 31, 34, 38, 44, 45, 58, 62, 64, 67, 69, 71, 72

#### knowledge of AI design and its software implementation

25, 27, 29, 33, 34, 38, 39, 41, 42, 43, 44, 45, 52, 56, 58, 59, 62, 64, 65, 67, 69, 71, 72, 73, 74, 75

#### user environment

25, 26, 27, 28, 29, 33, 34, 38, 39, 44, 45, 49, 56, 58, 59, 62, 64, 65, 67, 69, 71, 72, 73, 74, 75

#### Graphics

25, 27, 28, 29, 33, 34, 35, 38, 44, 45, 48, 49, 52, 56, 58, 59, 62, 64, 65, 67, 69, 71, 72, 73, 74, 75

#### **Physics**

22, 25, 27, 28, 29, 33, 34, 36, 38, 39, 44, 45, 49, 52, 58, 59, 62, 64, 65, 67, 69, 71, 72, 73, 74, 75

#### sound

25, 27, 28, 29, 33, 34, 36, 44, 45, 48, 49, 52, 58, 59, 64, 65, 67, 69, 71, 72, 73, 74, 75

#### knowledge of analyz, choose, and compare engines

22, 24, 25, 27, 28, 29, 30, 32, 33, 34, 35, 36, 38, 39, 40, 41, 44, 45, 46, 47, 48, 49, 50, 51, 52, 56, 57, 58, 60, 61, 62, 64, 65, 66, 67, 68, 69, 71, 72, 73, 74, 75, 76

#### knowledge of developing plug-ins in engine

22,25,26,27,28,29,30,32,33,34,35,36,38,39,40,41,43,44,45,46,47,49,50,51,52,54,56,58,60,61,62,64,65,66,67,69,71,72,73,74,75,76

# post-production

#### game testing technologies

23,24,28,29,30,32,34,38,39,40,43,44,45,46,47,48,49,50,51,52,56,57,59,60,61,62,64,65,66,67,68,69,71,72,73,74,75

#### game localization technologies

22, 23, 27, 28, 29, 30, 32, 34, 35, 38, 40, 42, 43, 44, 45, 46, 47, 50, 51, 52, 56, 57, 60, 61, 62, 64, 65, 66, 67, 69, 71, 72, 73, 74, 75, 76

## **Supplementary and complementary**

#### **Payment**

22, 27, 29, 30, 31, 32, 34, 36, 38, 39, 40, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 56, 57, 61, 62, 64, 69, 71, 72, 73, 74, 75

#### **Analytics**

27, 28, 29, 30, 31, 34, 36, 37, 38, 39, 40, 44, 45, 46, 47, 48, 50, 51, 52, 53, 54, 56, 57, 58, 61, 62, 63, 64, 65, 66, 67, 68, 69, 71, 72, 73, 74, 75

#### Backend as a service

22, 26, 27, 28, 29, 30, 31, 32, 34, 36, 38, 40, 44, 45, 46, 47, 49, 50, 51, 53, 56, 57, 58, 62, 63, 64, 65, 66, 67, 69, 71, 72, 74, 75

#### advertisement

22, 28, 30, 34, 36, 40, 43, 44, 45, 46, 47, 48, 49, 51, 52, 53, 56, 57, 61, 62, 63, 64, 71, 72, 73, 74, 75

# **Distribution and publishing**

technical knowledge to managing production and publishing of games (management and investment in production)

27, 28, 29, 30, 34, 35, 38, 45, 47, 51, 53, 56, 57, 60, 61, 62, 64, 66, 67, 69, 71, 73, 75

#### knowledge of risk analysis

27, 28, 29, 30, 33, 34, 38, 45, 47, 48, 50, 51, 56, 57, 60, 61, 62, 64, 66, 67, 69, 71, 75

#### skills to create market acceptance

27, 28, 29, 30, 33, 38, 45, 47, 49, 50, 51, 52, 53, 56, 60, 61, 64, 66, 67, 69, 71, 73, 75

# **Platform**

#### PC

#### Handheld

34, 35, 44, 47, 55, 63, 64, 65, 69, 73

#### Mobile

22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 49, 50, 51, 52, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 67, 68, 69, 70, 71, 73, 74, 75, 76

#### Console

25, 28, 32, 33, 34, 38, 44, 55, 57, 64, 65, 66, 67, 71, 72, 75

#### MMOs

22, 38, 44, 47, 55, 56, 63, 64, 69, 71

#### **Browser Game**

22, 29, 38, 40, 44, 45, 46, 50, 55, 56, 64, 69, 71, 75

# **Age group**

#### Children

22, 24, 27, 28, 29, 30, 31, 32, 34, 35, 38, 40, 41, 42, 43, 44, 46, 49, 50, 51, 52, 54, 55, 56, 57, 58, 60, 61, 64, 67, 69, 71, 72, 73, 74, 75, 76

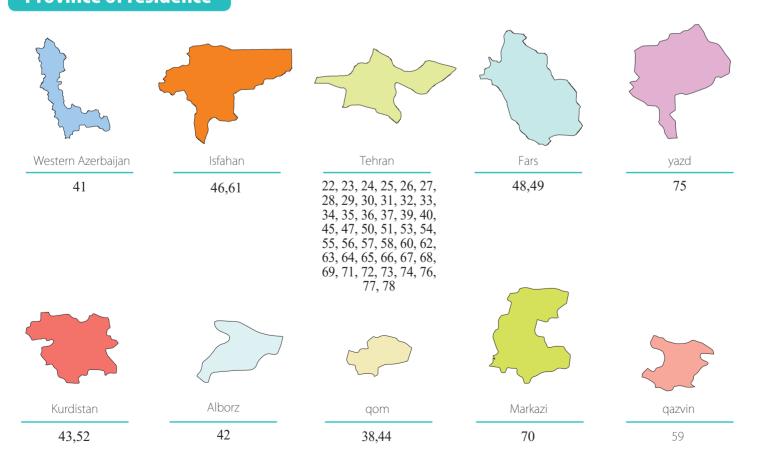
#### Teenagers

22, 24, 25, 27, 28, 29, 30, 31, 32, 33, 34, 35, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 49, 50, 51, 52, 55, 56, 57, 58, 59, 60, 61, 62, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76

#### The young and adults

22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 49, 50, 51, 52, 55, 56, 57, 59, 60, 61, 62, 64, 65, 66, 67, 68, 69, 71, 72, 73, 74, 75

# **Province of residence**



### **Foreword**

The video game industry is one of the most profitable cultural and creative industries. According to Newzoo reports, the revenue of video game industry will reach to 108.9 billion dollar in 2017, out of which 42 percent belongs to mobile games.

According to the latest research by Iran Computer and Video Games Foundation in 2016, there are now more than 23 million gamers in Iran, who play more than an hour a week. Among these people, the average time of a day spent on gaming is more than 79 minutes. In average, each Iranian family has a gamer on its own. The most important issue is that video games are no longer the sole media for children and teenagers; video games have now become an inclusive media for adolescents with an average age of 21 years old too. The sale of this industry in Iran in 2015 amounted to 140,000,000 Dollars (including hardware and software), which unfortunately only 5% of it belonged to Iranian games. All of these statements indicate the importance and potential of this industry.

According to the Iran Computer and Video Games Foundation's estimation, the cost of creating a job in video games is between 7,500 and 9,500 Dollars, indicating a faster cycle of job creation. Also, in this industry, a wide range of specialists, such as experts in the areas of art, game design, programming, sounding, publishing, distribution, management, etc., are involved in this industry. This fact confirms the entrepreneurial potential of this field and also reflects the complexity of production and management of huge game development projects which sometimes include staff members of over 200 different types of specialties.

According to the abovementioned explanations and because of its profitability and cultural impact, the video game industry has always been considered as a strategic industry and its development seems necessary for the government. Given the fact that the development of the game industry requires the development of technology, paying attention to the comprehensive and integrated technology development, localization, and commercialization is of great importance.

Accordingly, due to the importance of video games technology and overall governmental plan to advance the video game technologies, the Soft technology development council of the Vice Presidency for science and technology of Iran after identification and study of different technologies and design of a technology tree, has decided to publish a book on video game technologies. In this book, besides the classification and introduction of advanced technologies of world in the field of video game, Iran's technological capabilities in this industry are explained in the form of introduction of practitioners of this industry.

The purpose of this book is to introduce existing capabilities in the video game industry for private sector investors both inside and outside the country. On the domestic side, the existence of a comprehensive database of the companies active in the field of video game will allow private sector investors to attract attention to the technological capabilities of active companies and the profitability of the video game industry and to more practically facilitate investment.

In the foreign side, by presenting the companies' information and their capabilities, appropriate information is provided about the technological capacities of the country to create economic and technological cooperation.



# A review of the technologies of video game industry

As shown in the figure below, in video game industry, the production stage is the most complex and longest segment of the value chain of video games. At this stage, the game comes from the idea to the final product. Due to the complexity of the game development process, it is divided into three parts of the pre-production, production and post-production. In the pre-production stage, the game idea becomes the game design document. In the production stage, the game design document will become the final product. At the stage of post-Production, testing and localization of the game is done. There is also a section for other technologies related to the game industry, which are generally not developed by development teams.

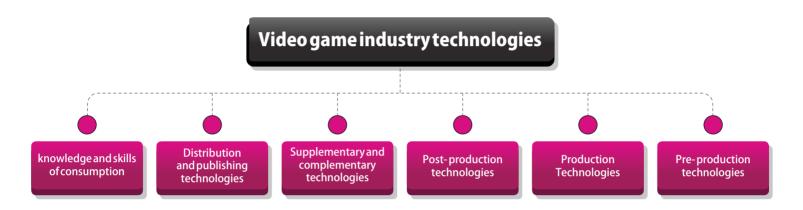
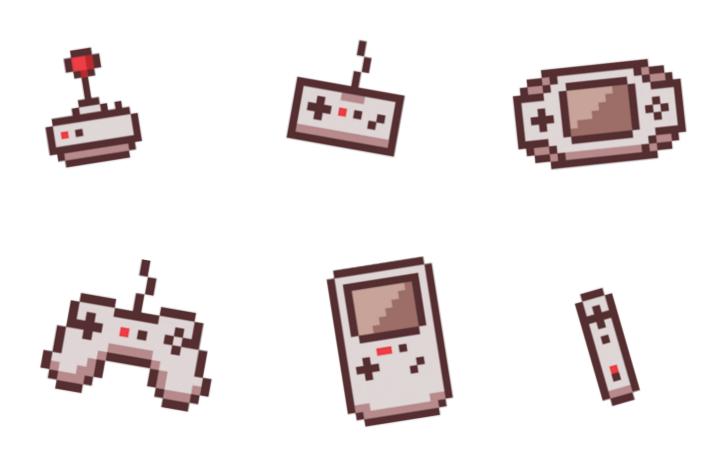


Figure. 1. General technologies of video game industry

In the following sections, explanation of the sub-technologies of each of the main areas is discussed.



# **Pre-production Technologies**

Knowledge of creativity and ideation: The first thing that is needed in the design of the game is a good idea. This idea must not necessarily be constructed and formed at the outset. There are many different points to get ideas and game designs, some of them are brain storming, decision trees, market researches, and the Delphi method.

Technical knowledge of game (art, design, and technical) documents creation: When the game's pre-production section is finishing, its documents must be ready for all parts of the game. These documents include the art document, design document, and game technical document. Game documents at the time of production allow the developer team to get on the right track to develop the game through reading the document without a need to meet owner of the idea. When a game project is proposed to the game developer team, the development team will prepare a game design document and then with the publisher consent they will be responsible to complete all parts of the game according to the document. Game documents can include text, images, charts, sketch, or any other medium that better reflects the design team's decisions. No standard format for game documents is described and this is provided in different ways in the game developer companies. The three main technological items in this area are as follows:

- Knowledge of art document creation
- ■Knowledge of game design document creation
- Knowledge of technical document creation

# **Production technologies**

Knowledge of game production: The project manager is responsible for ensuring the delivery of the project in due time, control on financial and other kind of resources, as well as guaranteeing the product quality. Due to the complexity of producing a game in terms of timing and coordination of different teams including software developers, designers, artists, writers, etc., management knowledge is very important. During the game development process, the project manager while overviews the progress of the production, communicates with publishers and marketers and performs public relations management.

Game designing technologies: All parts of the game design document must be implemented technically. Accordingly, various technologies are used to implement the game design document.

Technical and artistic knowledge of creating games: This section is divided into two areas of visual and sound. Visual design is done with 2D and 3D art design styles. An artist designs basic outlines of the game for storyboard, items in the game, characters, etc. Also, in the visual arts section, visual effects of the game will be implemented. The sound and audio technologies of the game include music editing technologies, sound skills, sound editing technologies and more.

Technical knowledge of game engineering: This area is divided into three parts of the technologies to use platforms and tools, technology of using the existing game engines, and knowledge of developing engine software.

# Technologies to use platforms and tools

The technologies to use platforms and tools include:

- Technical knowledge of choosing game hardware platform: The player needs to have a hardware device to communicate with the game and send the necessary commands. This can be considered during the game production process to provide different tools for this platform.
- Technical knowledge of choosing game execution platform: based on the game's target audience, genre, financial targets, and technical, art, and design limitations, the game execution platform should be choose.
- Technical knowledge of choosing the communication platform: Video games are played offline or online. Online video games are the ones that require a local area network or internet connection to run it.

Knowledge of developing engine software: The game engine is a software designed to develop computer games. Developers use game engines to create console, mobile phones, and PCs games. Game engines usually include rendering engine, physics and collision detection engine, audio, scripting, animation, artificial intelligence, networking, memory management, threading, localization support, and scene graph. As a rule, a game engine can be used to produce several different games.

Some of the knowledge and skills necessary for engine development are: knowledge of game engine production management, technical knowledge of game engine core development, knowledge of AI design and its software implementation, knowledge of game user environment software development, knowledge of physic design and its implementation, knowledge of game engine sound software development, and knowledge of game engines graphic software development.

Technology of using the existing game engines: There are excellent engines like Unity, Unreal, CryEngine, and the like, which are very flexible and can be used for any type of games. There is almost no need to design the game engine from the beginning. Possible reasons for writing the game engine from the beginning can be one of the following:

- The game has a specific feature that does not feature in the engines.
- The technical team can design and implement a better and faster engine.
- The game developer wants to have all the control in the game.

The following figure shows the game production sub-technologies.

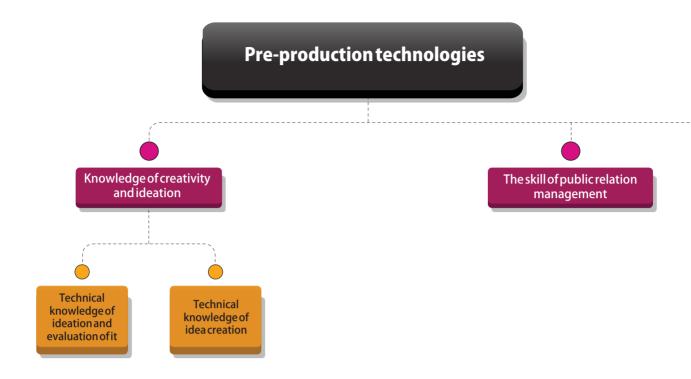
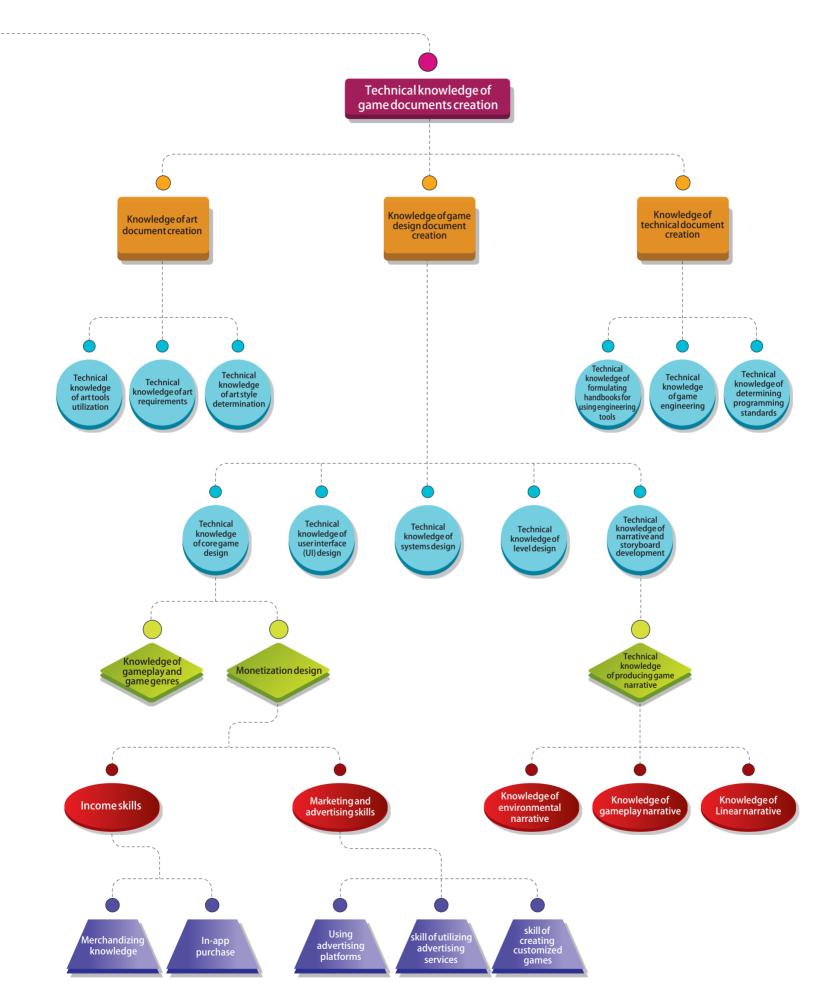
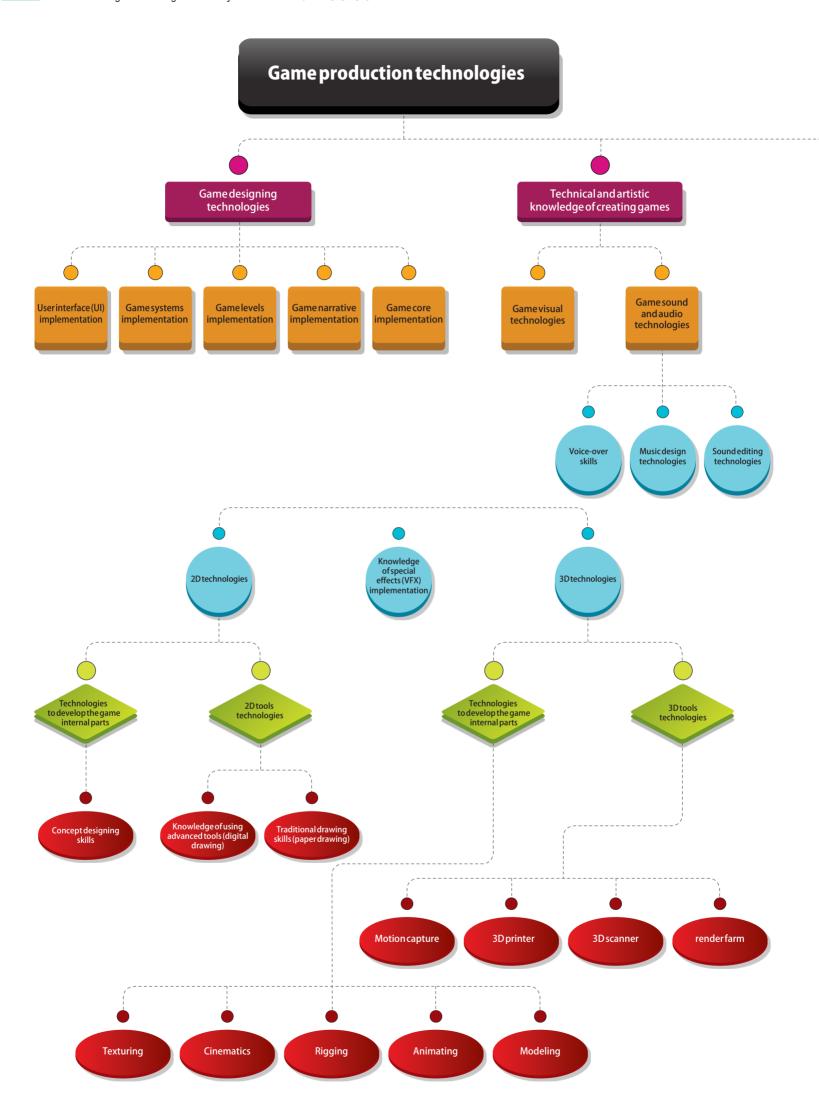


Figure. 2. Video games pre-production sub-technologies





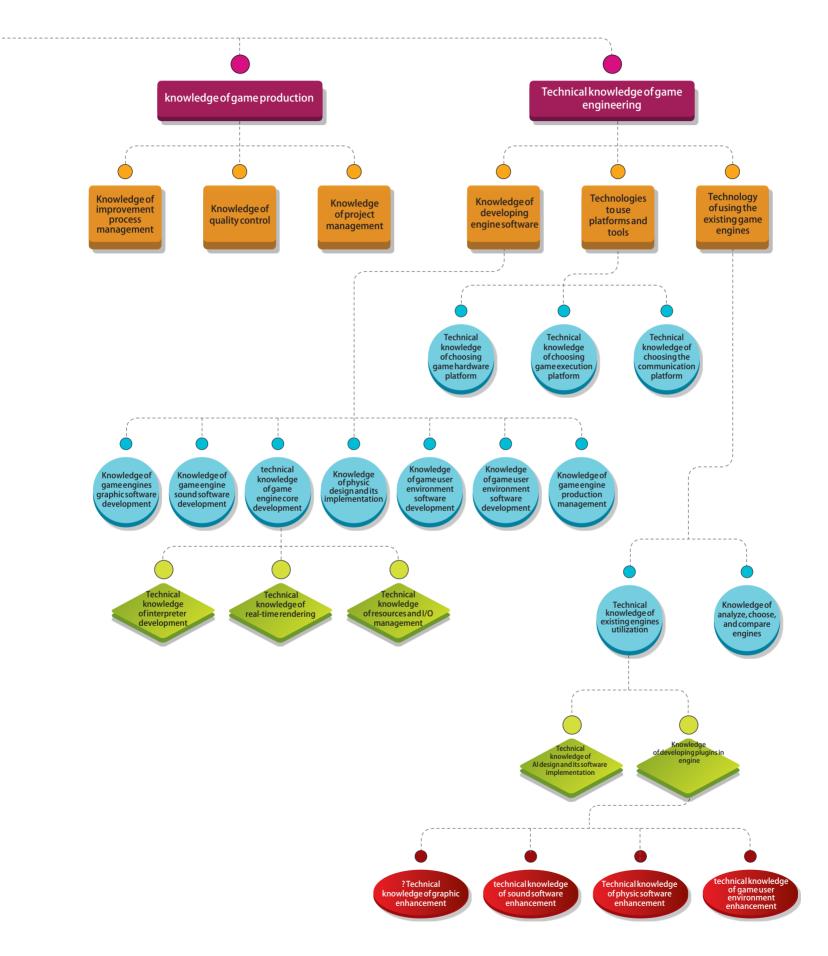


Figure. 3. Video games production sub-technologies

# **Post-production Technologies**

Game testing technologies: After the game is ready, it must be tested internally or by testing algorithms, which is called an alpha test. It is then tested by professional gamers for all game parts, and if a malfunction is detected, the error will be reported, and after the problem is resolved by the responsible department, the game is again tested by the gamers and ultimately will be approved.

Game localizing technologies: Localization of games is generally performed in order to enter and sell the game within a market in a new region or country (action such as translating, reprinting booklets, labels, etc.). In addition to the aforementioned activities, in some cases, due to different cultural considerations, it is necessary to rebuild some parts or to remove them from the game.

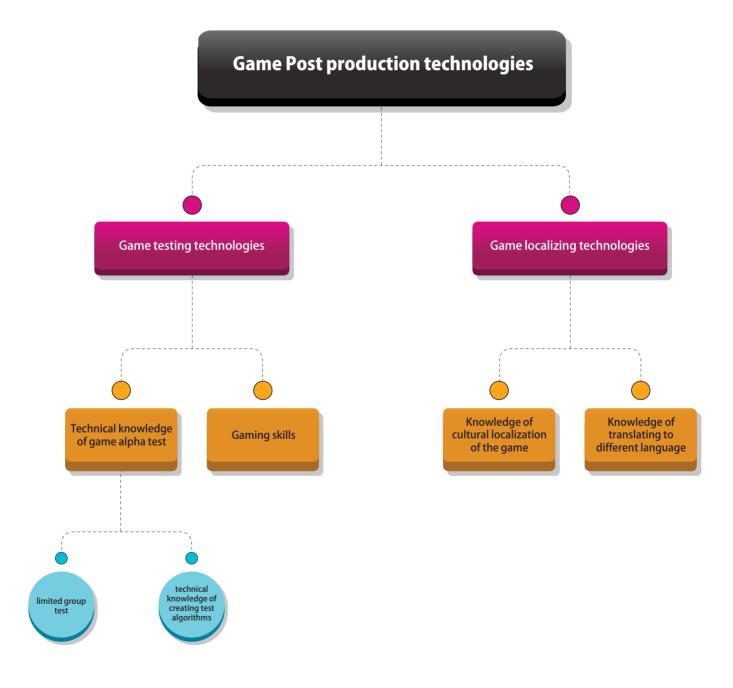


Figure.4. Video games post-production sub-technologies

# **Supplementary and complementary technologies**

In the game industry there are some components that cannot be done by game developer teams.

Technical knowledge of Payment methods: The creation of payment method is always not carried out by game development teams.

Technical knowledge of firmware development: The firmware is a software component that connects to a game and performs some of its specialized activities, such as server side tasks, analytics, and so on.

Technical knowledge of creating gaming platforms: The process of producing game platforms, such as computers, consoles and gadgets, is separate from the game development process. Generally for game development, one or more platforms are chosen by game developers.

Technical knowledge of gaming tools production: The gaming tools have already made remarkable progress. Future generations of this tool will be augmented reality and virtual reality. In the augmented reality, the physical environment directly or indirectly adds items such as sound, video, graphics, and more. Virtual reality as a multi-media allows the user to interact in the virtual world. The user can experience sensations including sight, hearing, taste, smell, and touch when using virtual reality.

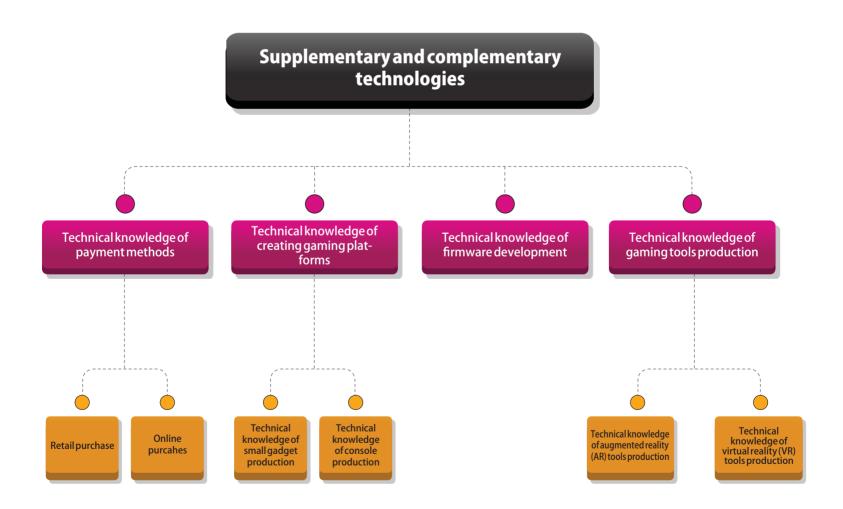


Figure. 5. Video games supplementary and complementary sub-technologies

# **Distribution and publishing technologies**

Technical knowledge and technologies of publishing: Since publisher is the sponsor of a game developer team in action, he usually manage game development risks. For this reason, publishers use a project manager at the development team to get information of the progress of the project.

Technical knowledge and technologies of game distribution: Successful distribution of a game requires special knowledge and technical skills. For example, the distribution of the game at the wrong time can fail a high quality game project. The best time to distribute video games in Iran, due to the closure of schools and universities, is early summer. Due to the expansion of the Internet and the widespread use of the global network, the digital distribution of video games is increasing. In this method, due to reduced cost of reproduction, the printing of labels, and physical distribution of the game, publisher's profit also increases. At the present time, the main digital distribution systems for video games are the app stores, and in the future cloud services will also be added to digital distribution.

Figure.6. Video games distribution and publishing sub-technologies

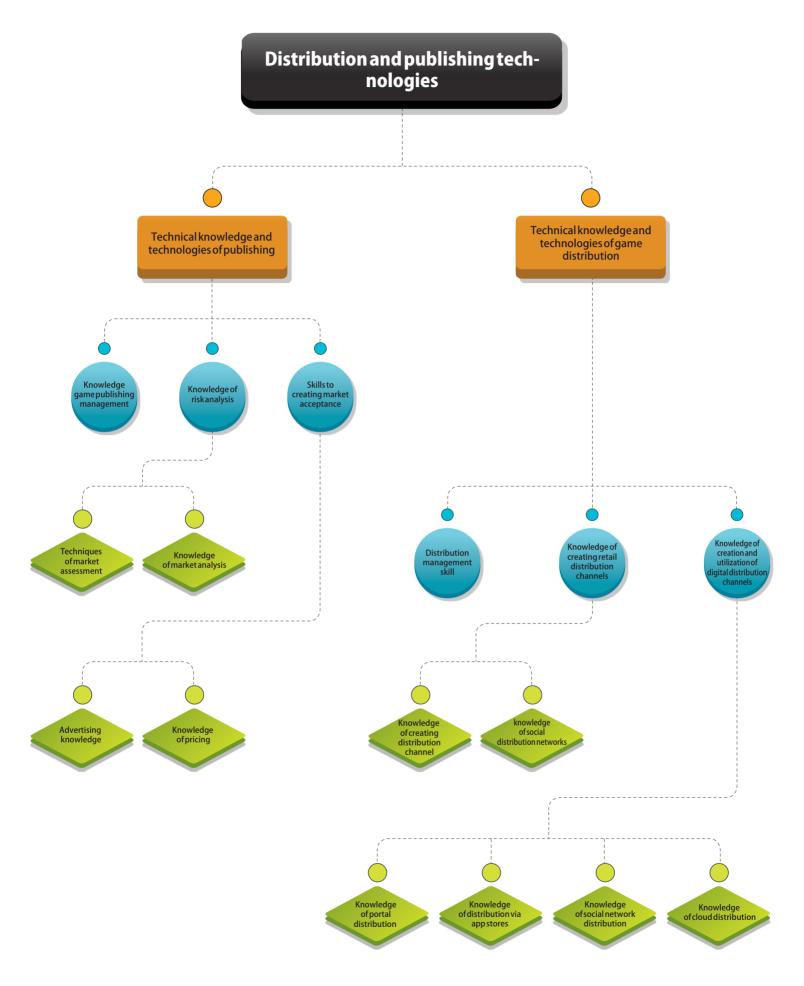


Figure. 6. Video games distribution and publishing sub-technologies

# **Knowledge and skills of consumption**

Technical skill of critics and analysis: the critical procedure is the science of evaluating and assessing the degree of scientific credit in a works which like any other discipline have scientific rules and principles of his own.

Knowledge of age classification and rating: The age classification of computer games is done based on the developed game content. Most of these systems are developed by the public sector and are often based on the rating of contents of moving images.

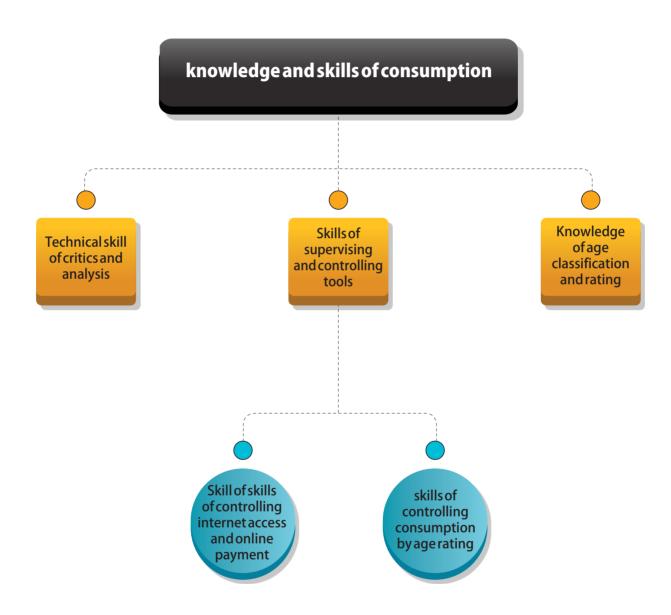


Figure. 7. Video games knowledge and skills of consumption

# The book guide

The book "Technologies of video game industry – Iran 2017" includes the technology tree of this industry. Besides, this book presents the local and commercialized information on day-to-day applications of the video game industry in six fields of pre-production, production, post-production, supplementary and complementary, publishing and distribution, technical and consumption skills. Accordingly, in the present book, while presenting a category of technologies, the companies and institutions active in Iran's game industry have been introduced. This book is now applicable to policy-makers and decision-makers and provides a good picture of the industry's existing capacities and status. The book also applies to private sector investors and shows the investment capability in the video game industry.

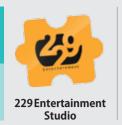
This book contains the information of active Iranian companies and institutes in the video game industry. The information is as follows:

- Company's name and logo
- The name of the CEO and other key personnel
- The main missions and activities of the company in the video game industry
- Picture and specification of the productions
- Full company's contact information
- The technologies collected in this edition of the book can be categorized according to the figure next page.

This must be said that the introduced companies have been found through field researches, search in specialized exhibitions in this field and using the exhibitions catalogues. After some investigations, the needed information acquired from these companies through self-introductory documents.

We hope that this book could be a step (though maybe small) in development of the video game industry and its international position.

# Technological Capabilities of Game Industry of Iran



■ Independent game developer

Achronicle of Studio 229

229 videogaming team started its projects as a private and independent game developer in early 2012. After having experienced a challenging year, in order to more vastly develop its area of work in accordance with the aims and goals of it, this game designers team changed into a computer games development department of Javanan-Sharq Co. and commenced its official work.

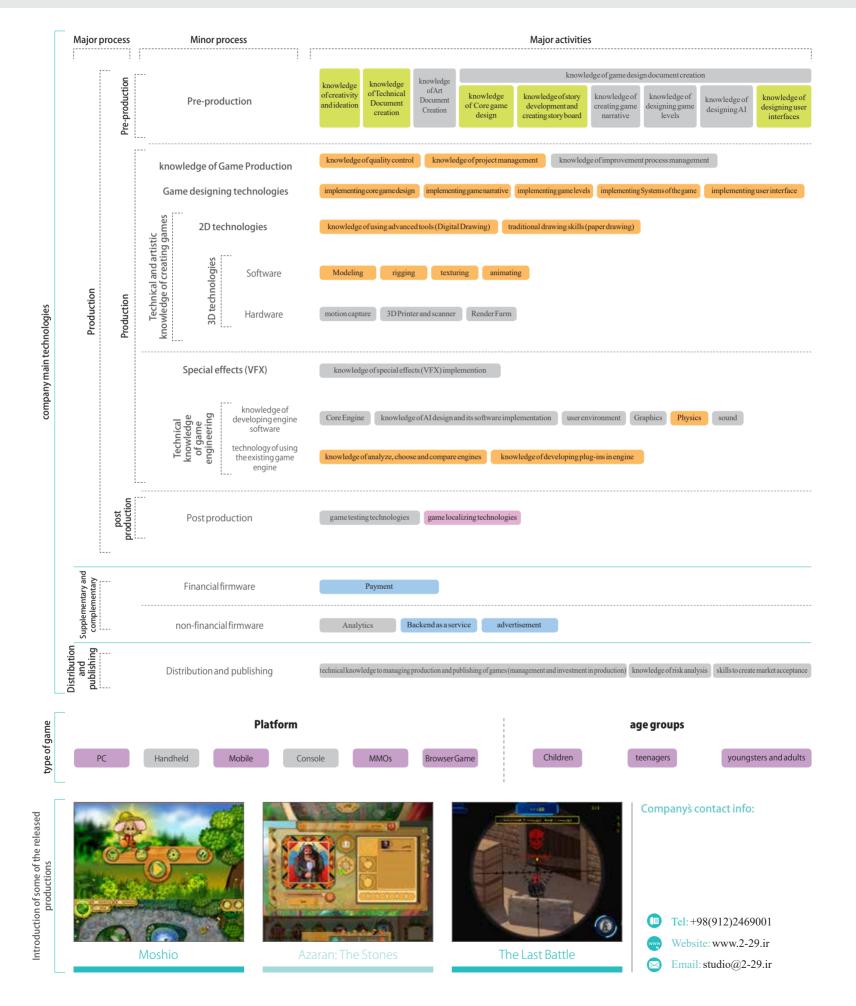
With regards to the day-by-day development of the computer games industry in the world, Studio 229 intends to establish the first place for Iran by producing and developing computer games meeting the world's standards. It also intends to prepare an online and national platform to distribute computer games to gamers and game developers.

Mostafa Amini Director and Producer



Shahriyar Bazaei Senior Programmer







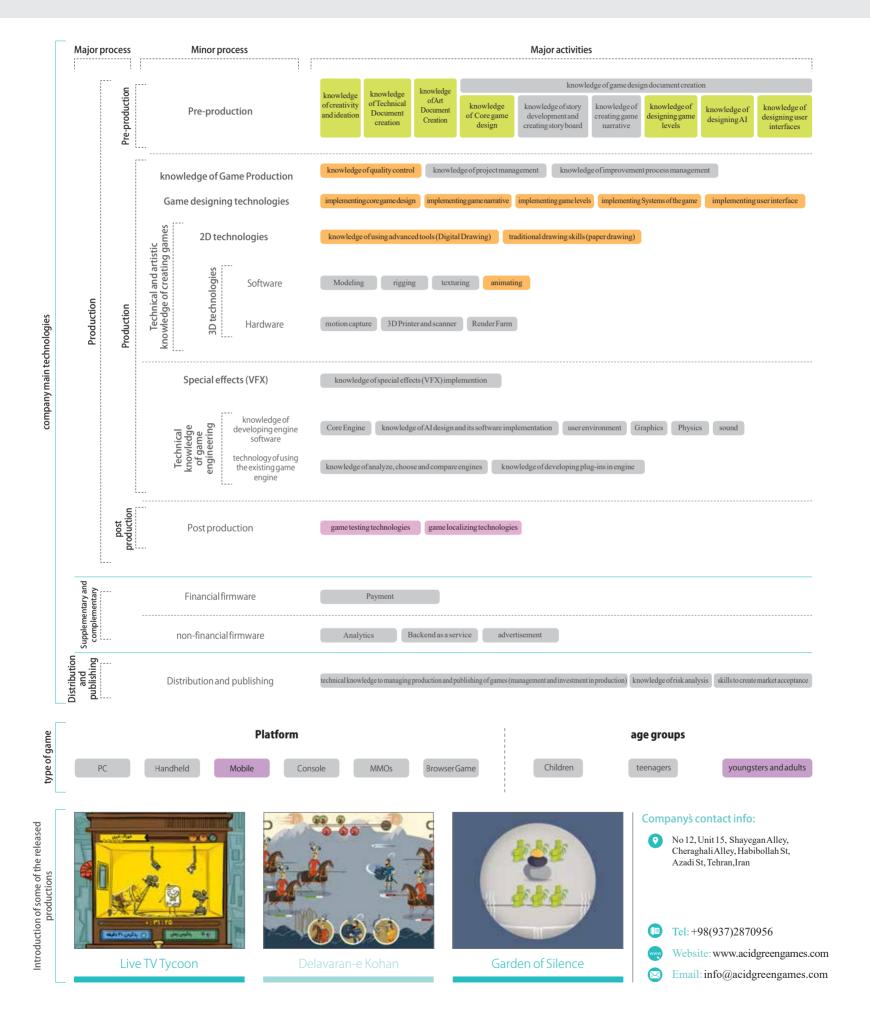
Yasaman Farazan



Reyhaneh Alesheykh

■ Independent game developer







■ Production of high-quality 3D cellphone games

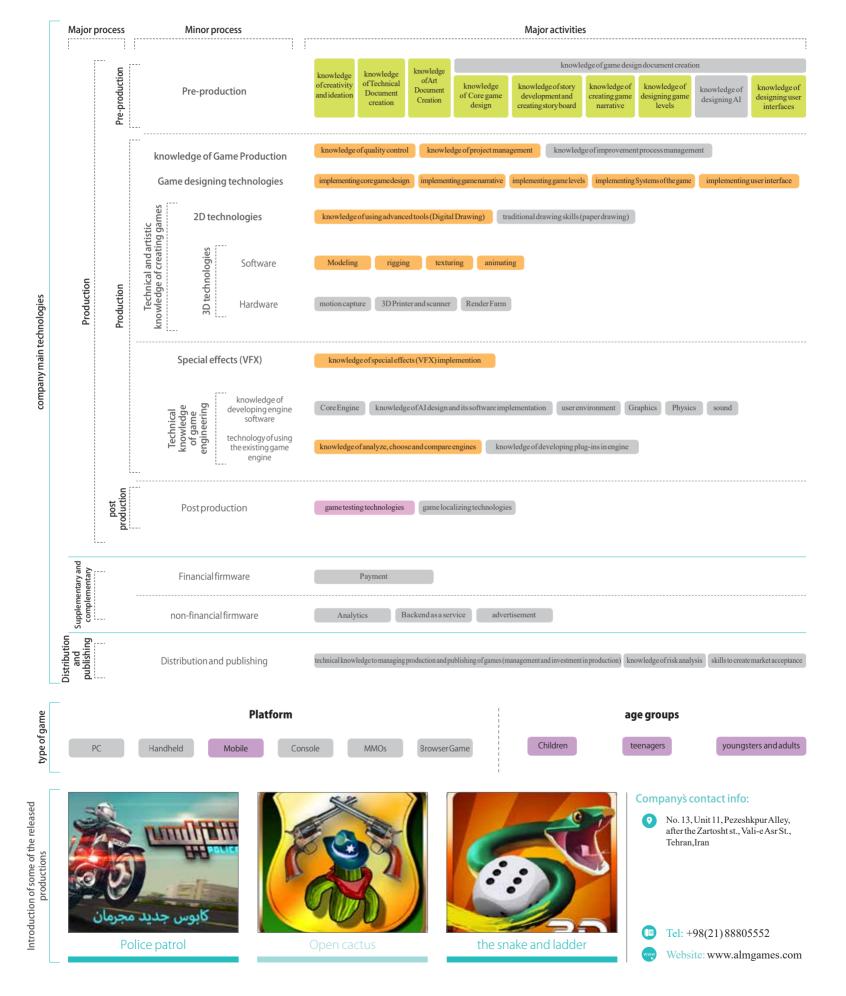
Production of high quality trailers and cinematics for video games





Behzad Rajabipour head of board of directors







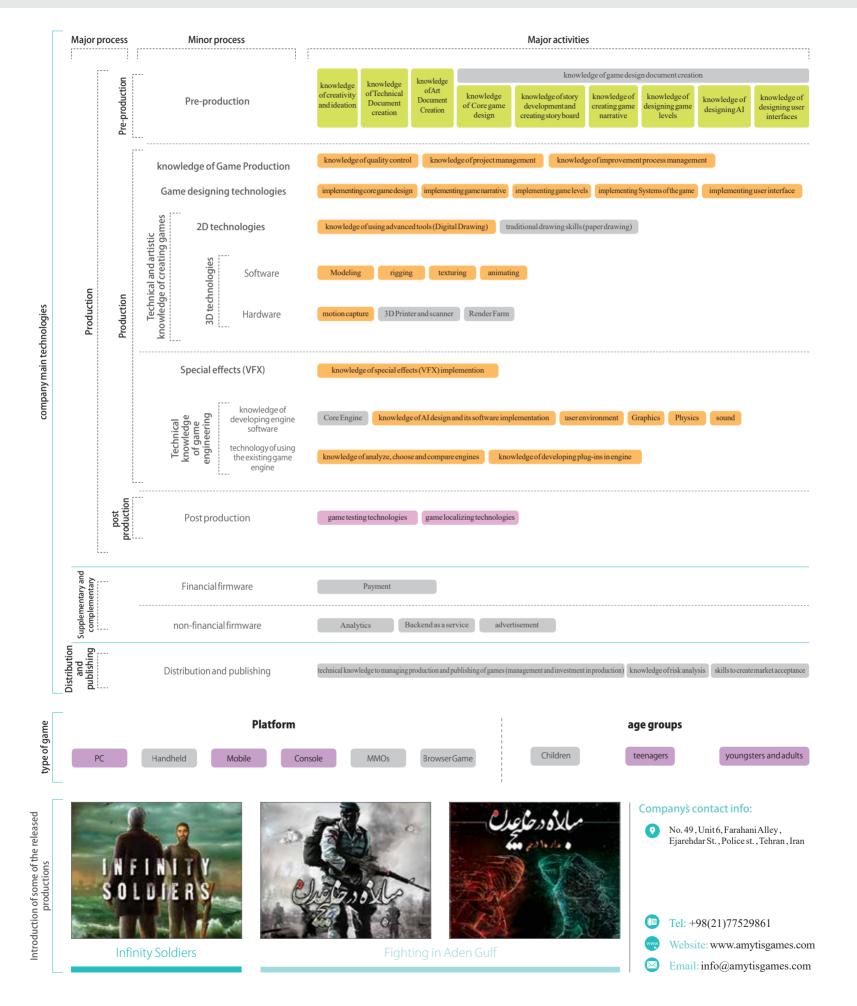
Shahin Sayad Haghighi



Javad Mahdizadeh Lima Art Supervisior and Art Director ■ Mobile Developer









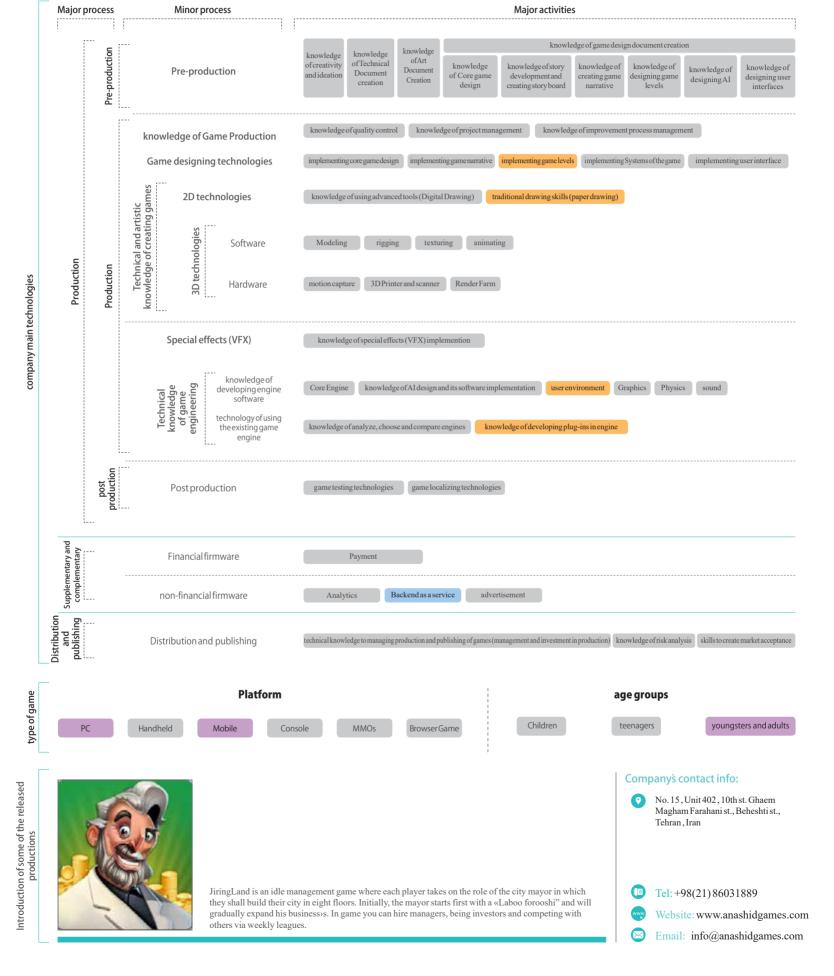
■ Mobile developer

Mahnaz Kabirian



Ahmad Mohammadnezhad Business Developer-Lead Game Designer







Keyvanian

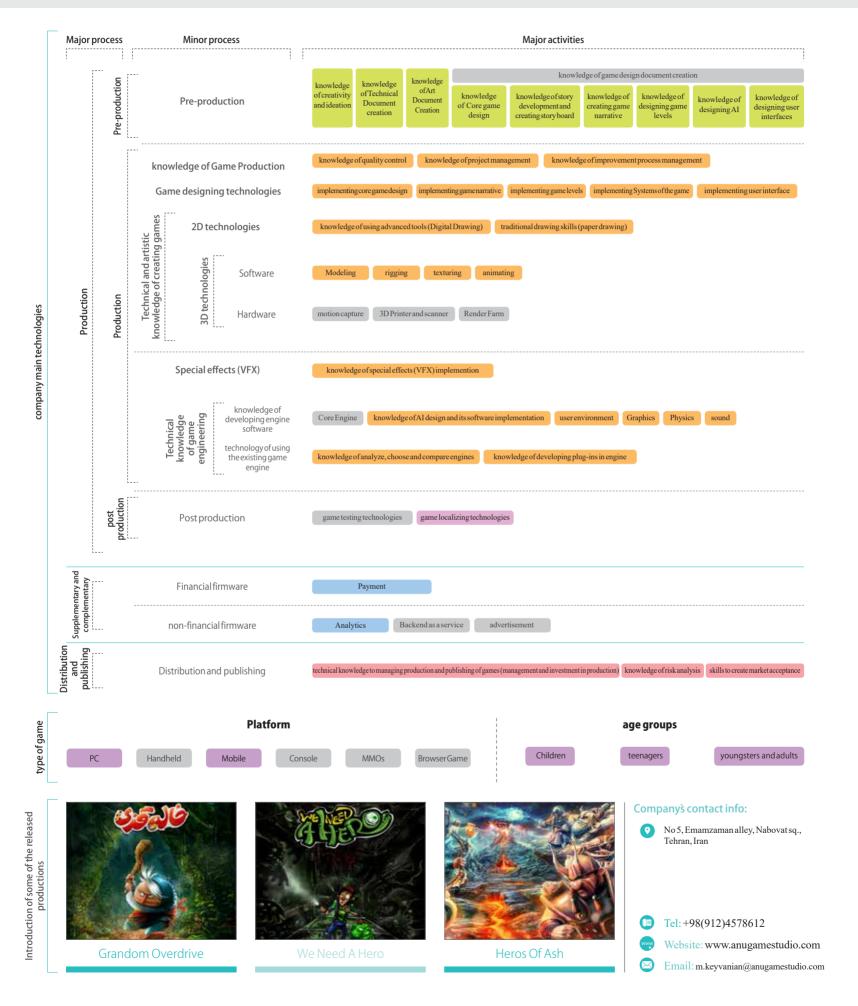


PC & consoles developer

mobile developer

service provider publisher/buyer





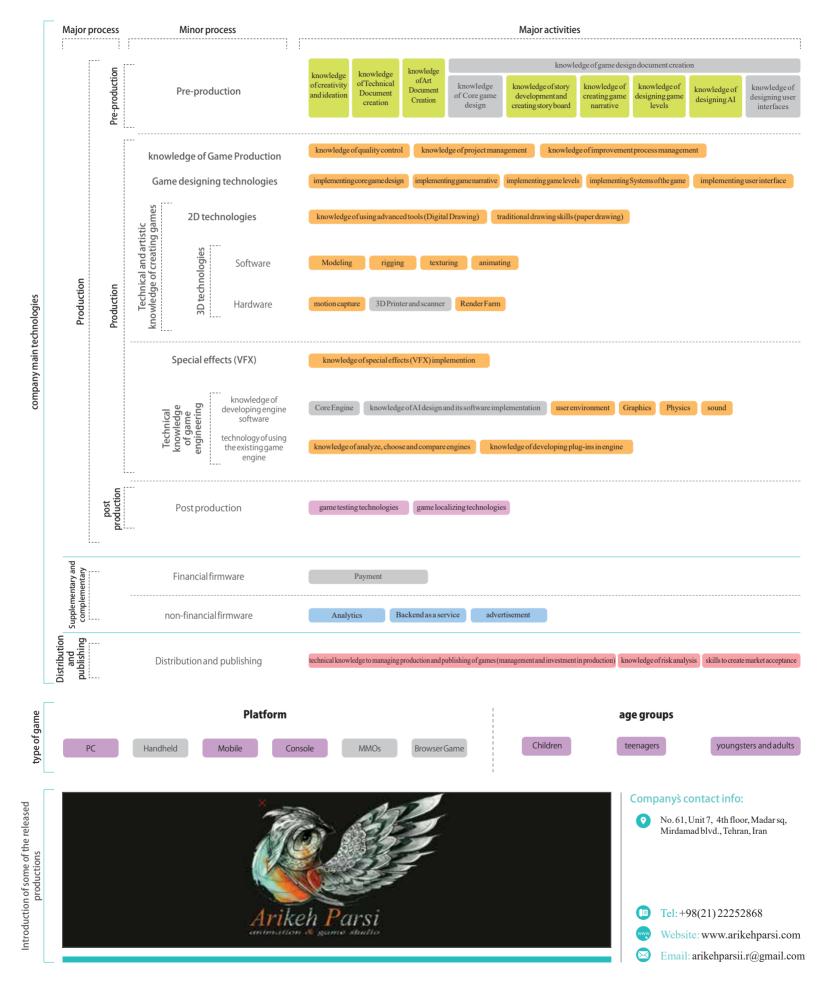


Arikeh parsi



Facial & Body Motion Capture







Mohsen Akbari Moayed

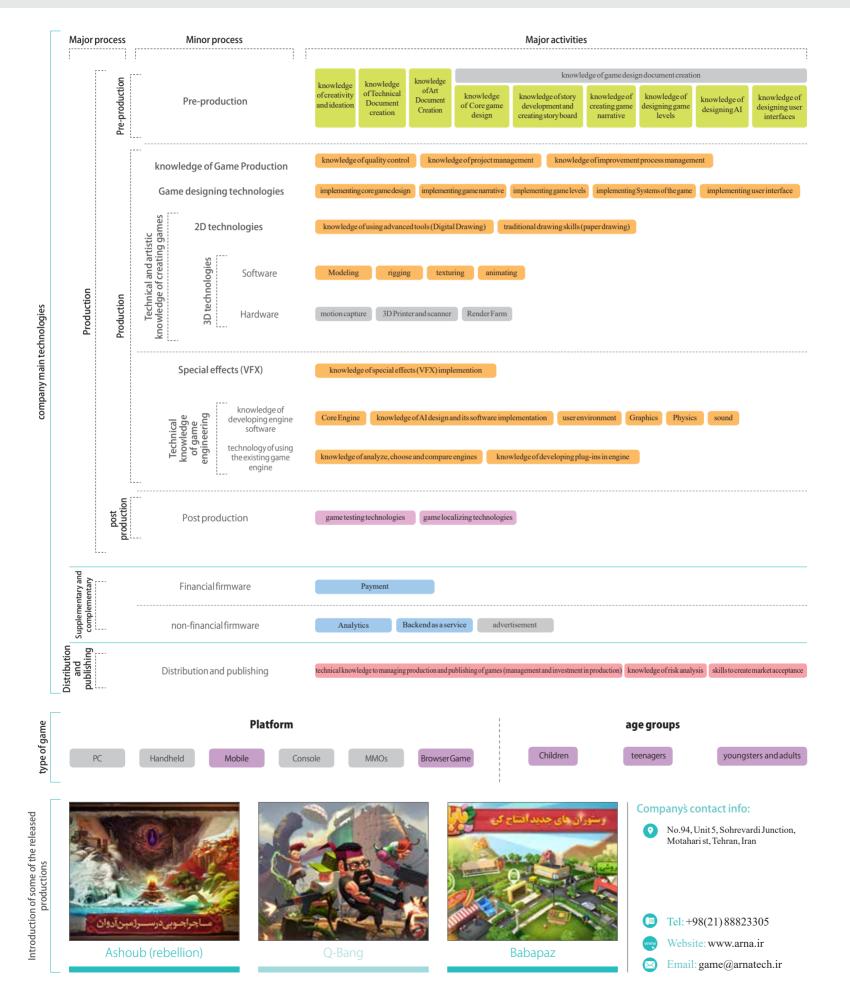


Ehsan Kamali

- Game Development, Mobile and Web-Based Game Localization and Publishing
- Providing BAAS Services for Online Video Games



Arna Studio





**Arvand Studio** 

■ Mobile Developer

Localizer

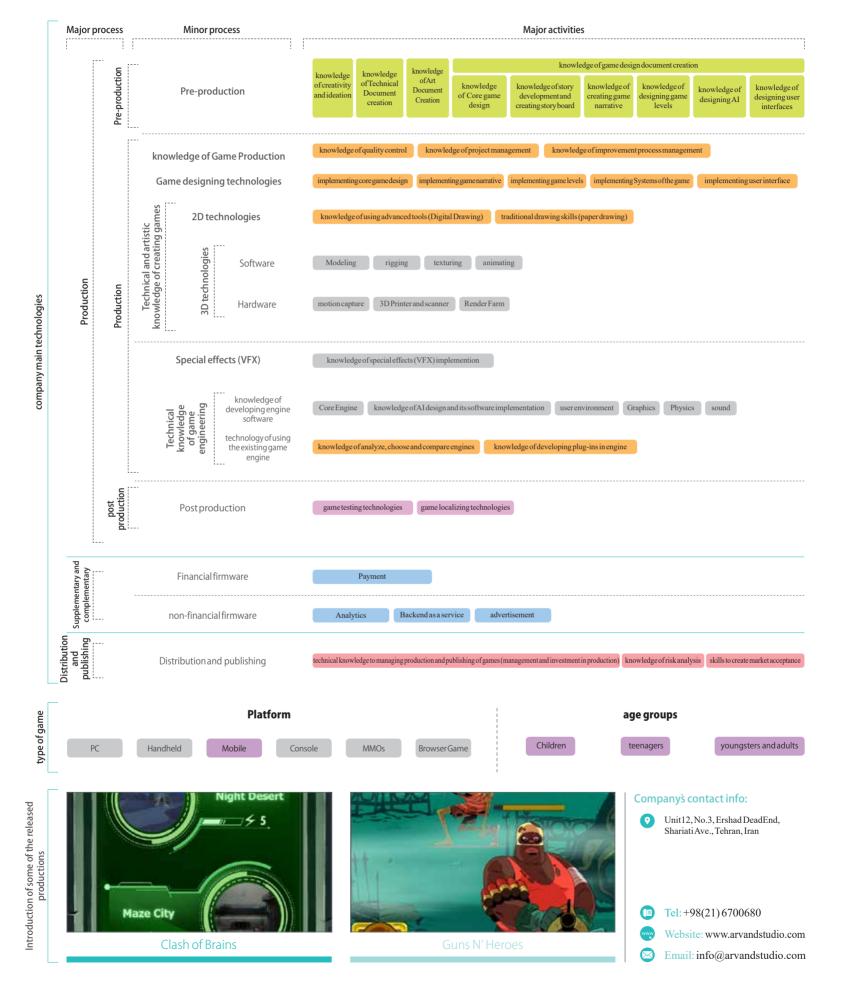
■ Publisher/Buyer





Reza Akrami Director/Lead Designer







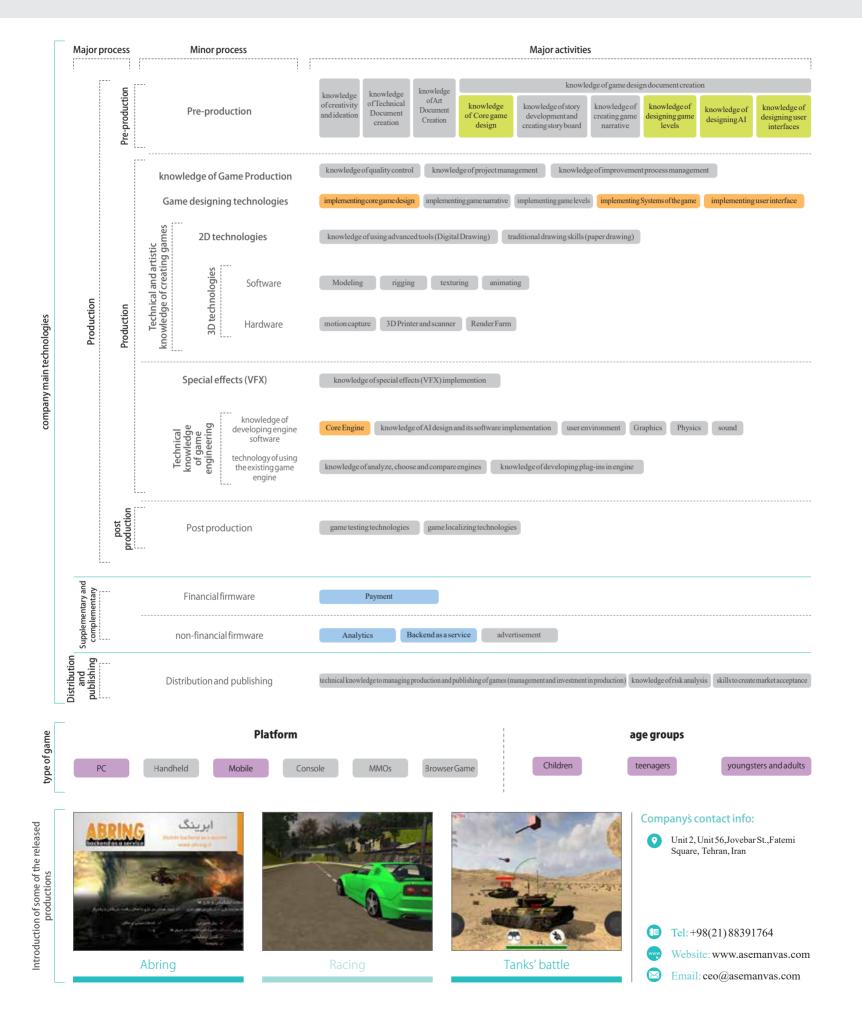
Mohammad Mahdi Mousavi Faraz



Hamid Fattah technical manager design and implementing cellphone games, applications and also providing mobile backend as a service



Aseman-esobh-e-farda





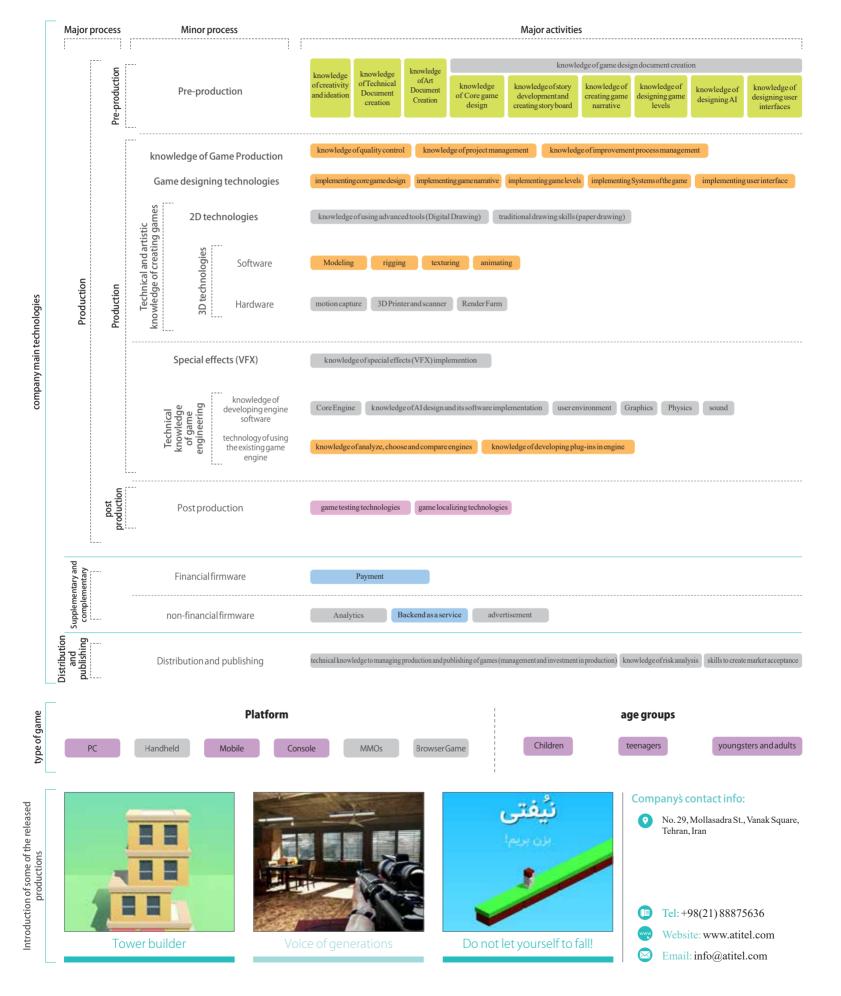
■ Production of quality games for platform and consoles and PCs and presenting them abroad and in the national market-production and localization of mobile games and exporting the scientific tools











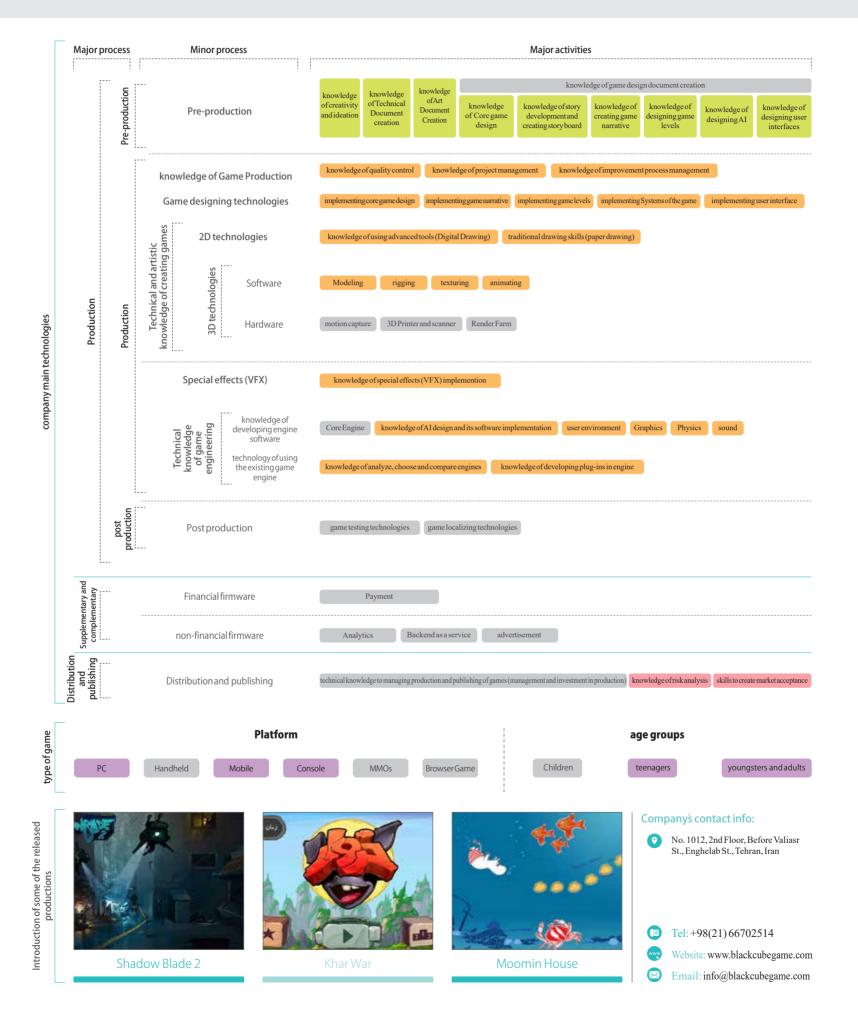


Amin Sahidi Team leader, animator game designer



Navid shadrokh Concept artist ■ The Black Cube Games team began its work as a studio with out source art projects. After completing several successful projects and adding some other members to the programming and designing departments, now this company is actively pursuing the goal of producing games for PC and console.







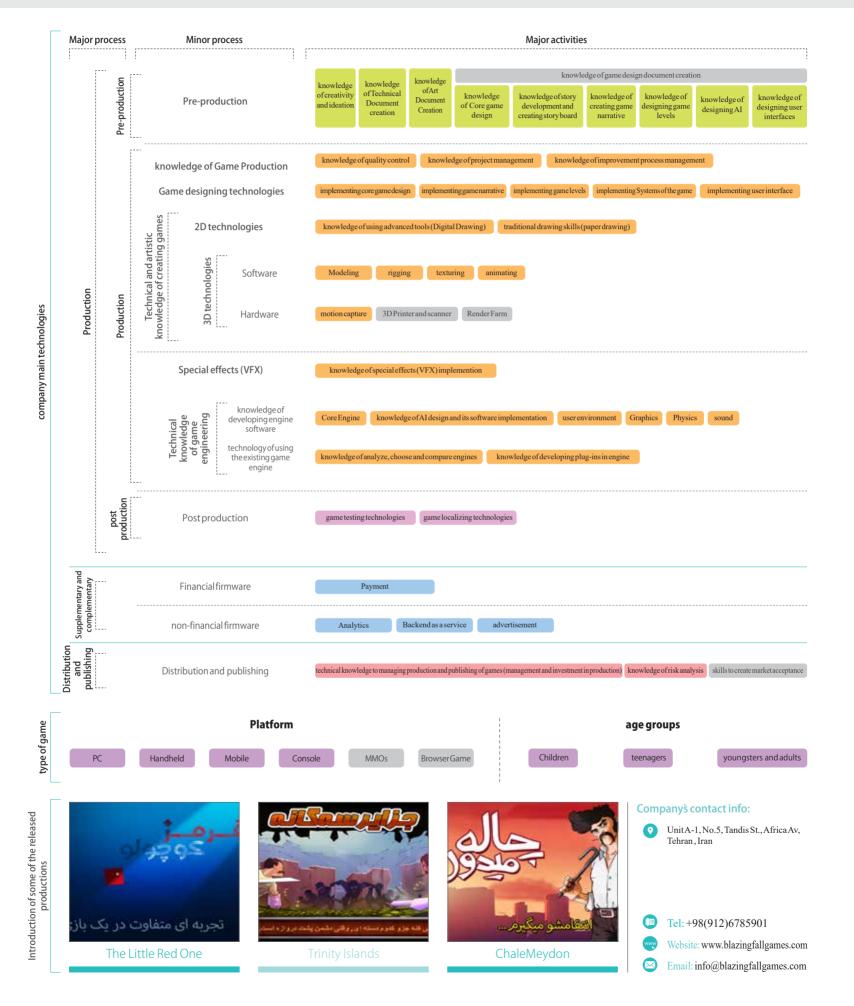
■independent game developer

Hamidreza Karamian



Abouzar Pourranjbar CEO





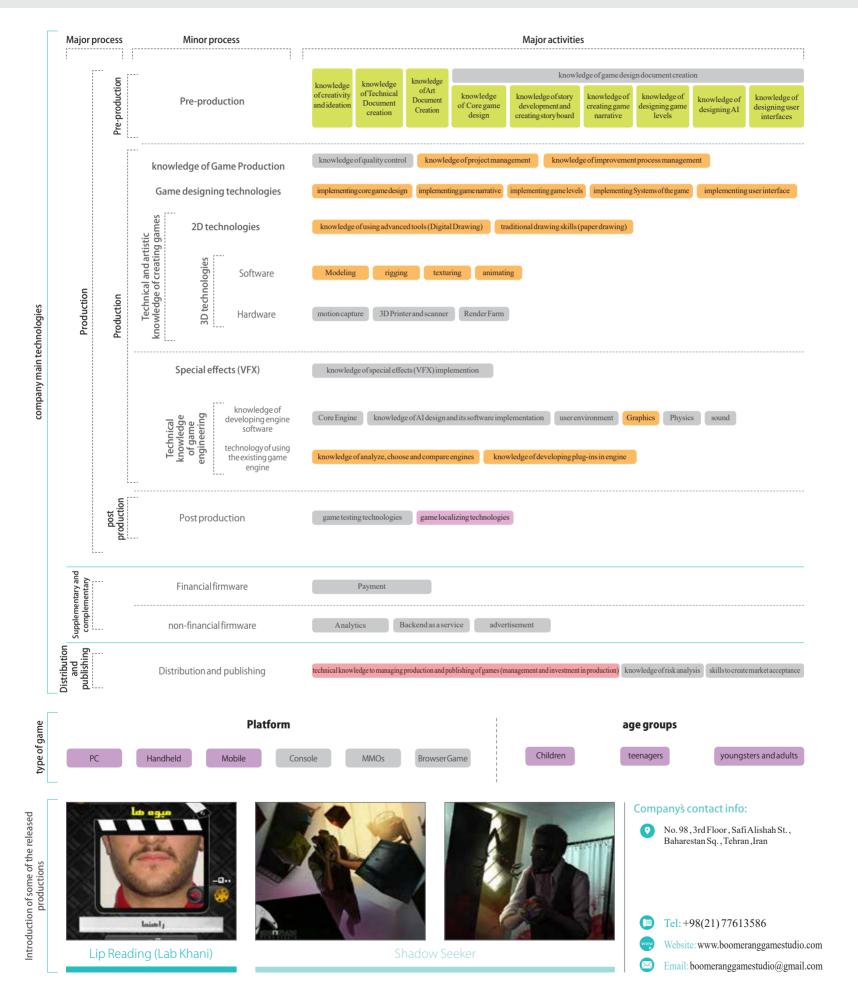


Sayed Ahman Dadashnejad Sooteh CEO & PR



Mahdi Sadri Technical ■Independent game developer







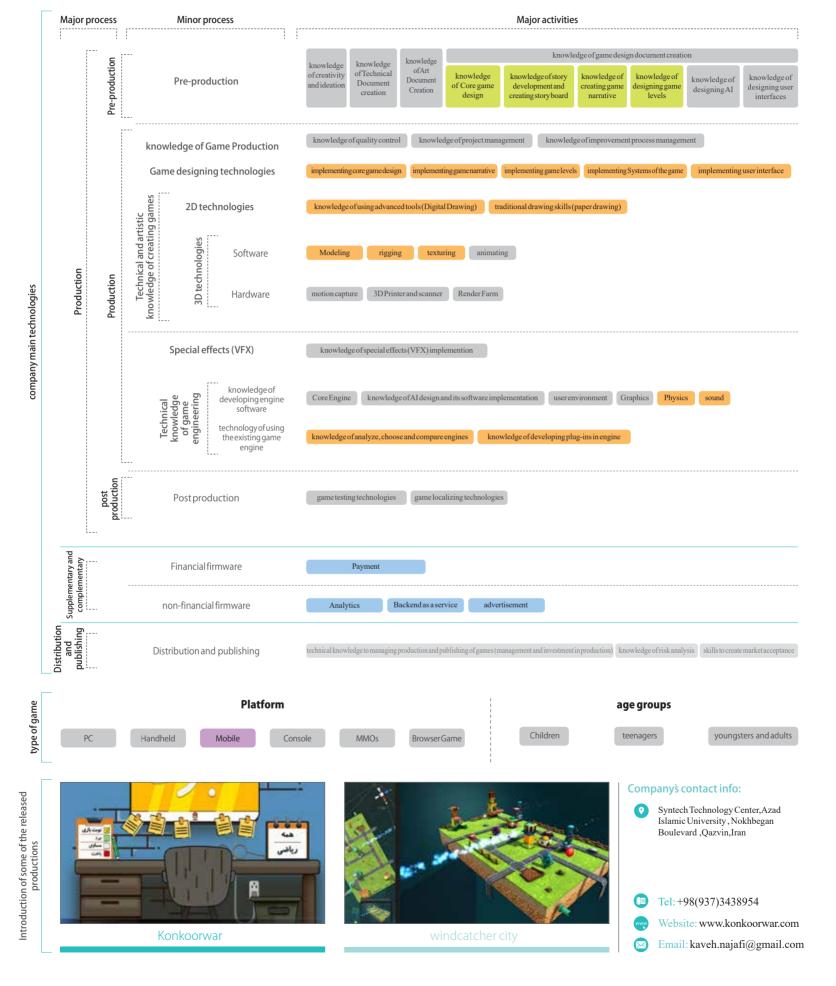
Independent game developer













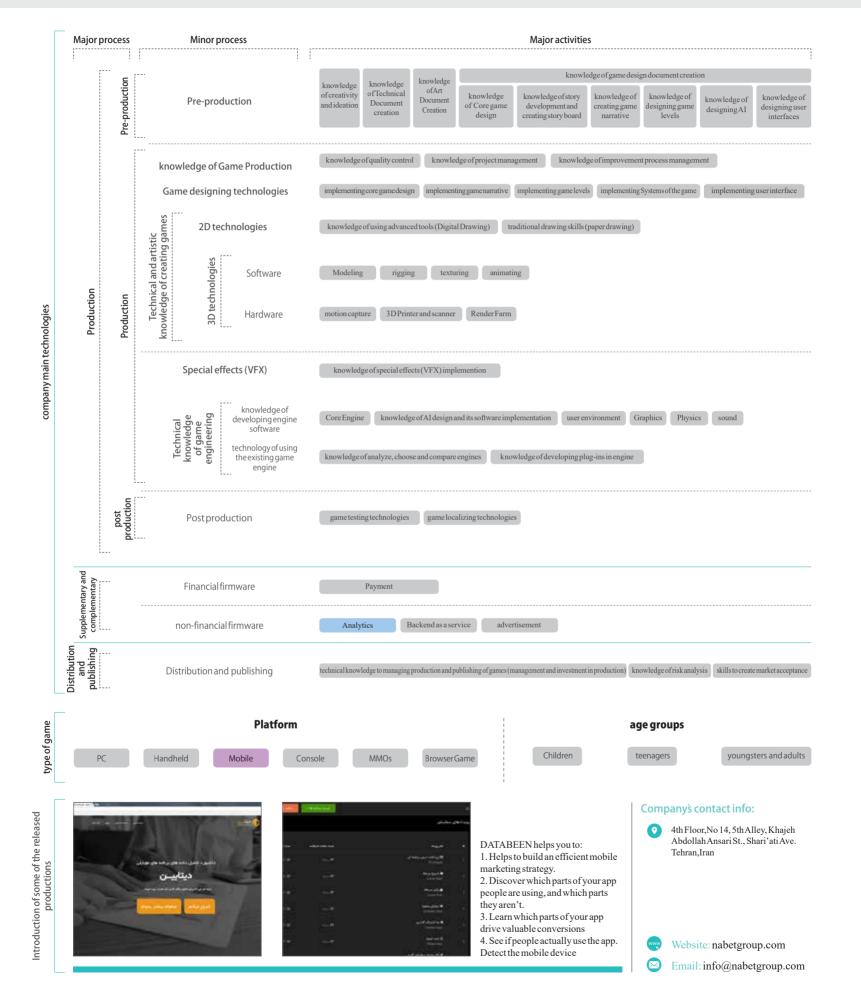
Neda Masnavi



Mahdi Yazdi Rad Product Manager ■DATABEEN is the first application analytics tool in Iran.

analyzing the data for understanding the behavior of users-improving the game designs-earning more income







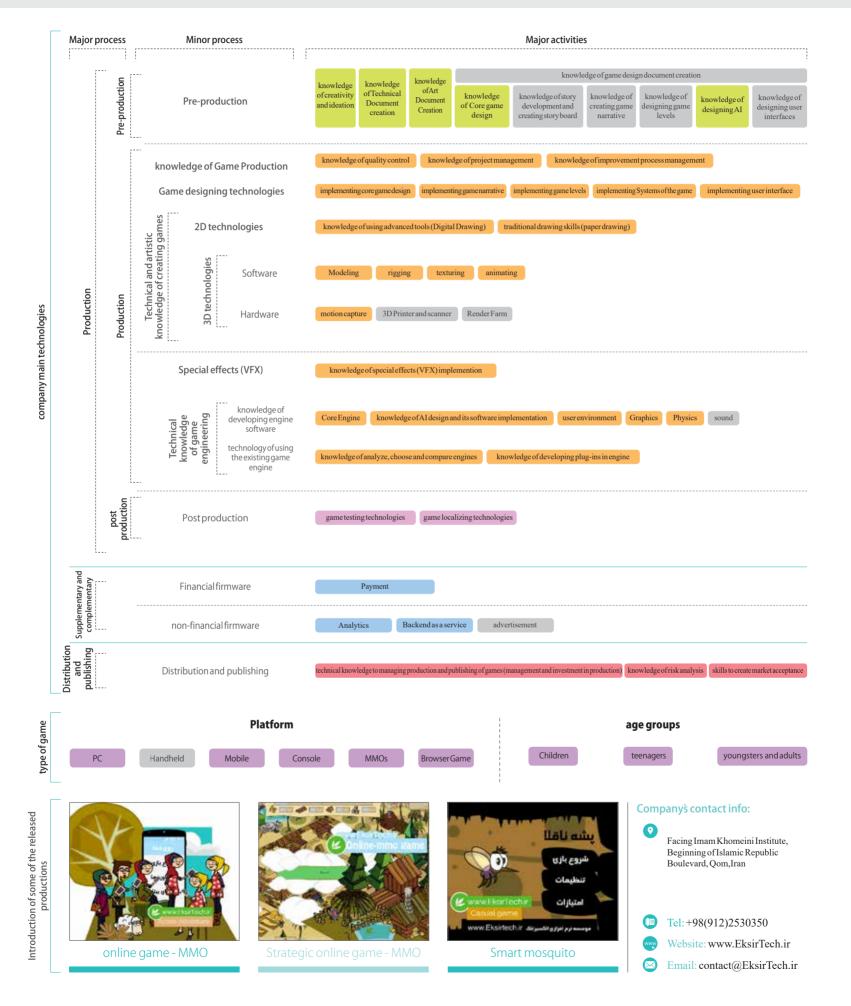
- The software group of EksirTech is active in the field of computer games and software for about 12 years
- Mobile j2me to android and ios
- windows mac linux
- Combining the power of programming languages and frameworks, channels of communication, and different systems with each other, such as php, java, action script, C#,unity,flash,android,web,...
- Innovation and research and creation
- A variety of products such as: Online-mmo game Adventure game Multiplayer game Action game Casual game 2D-3D game and software Augmented reality, AR Real time game Image Processing 2D, 3D Multimedia and Learning software 2D-3D Animation motion graphic stop motion ANE Robotic BMS ,...





Fariba Salari Vice Chairman of the Board

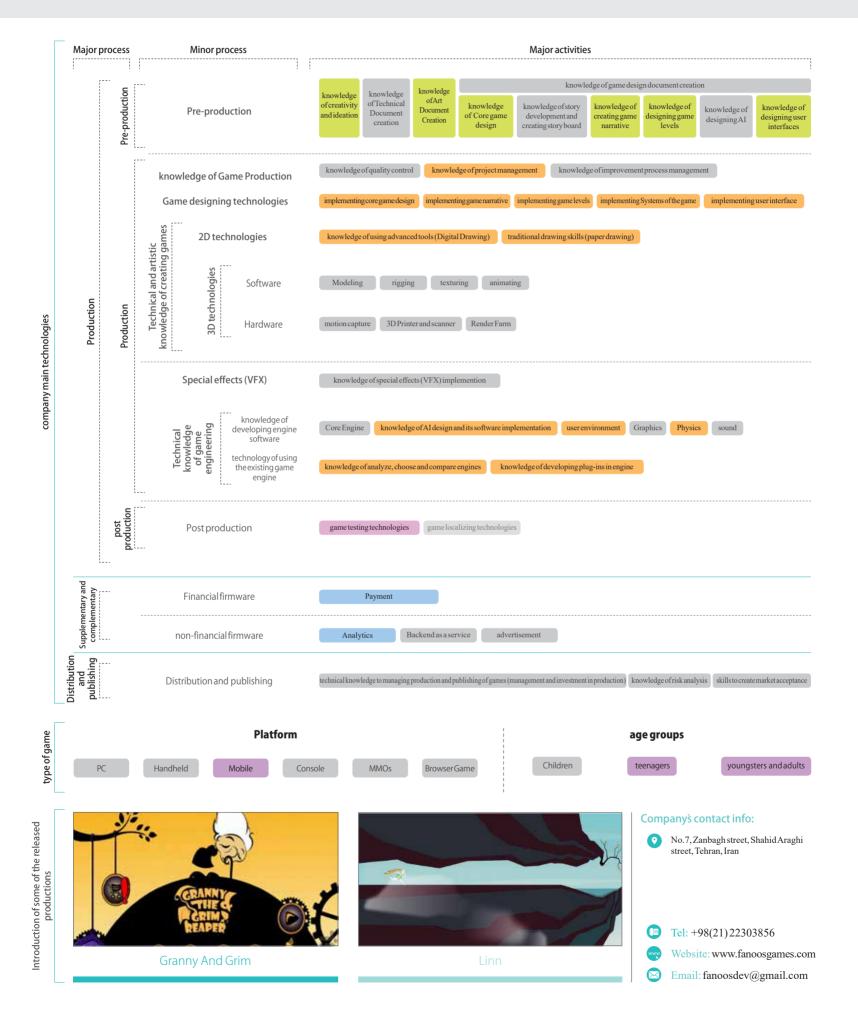






Mobile developer



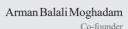




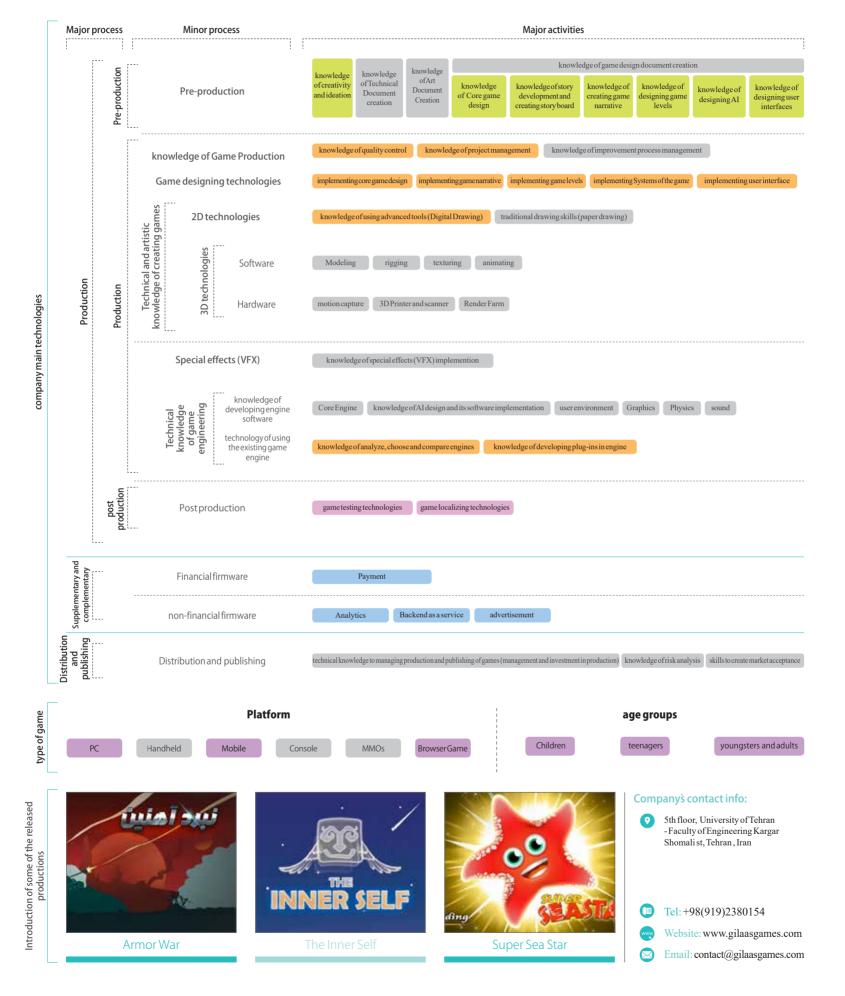










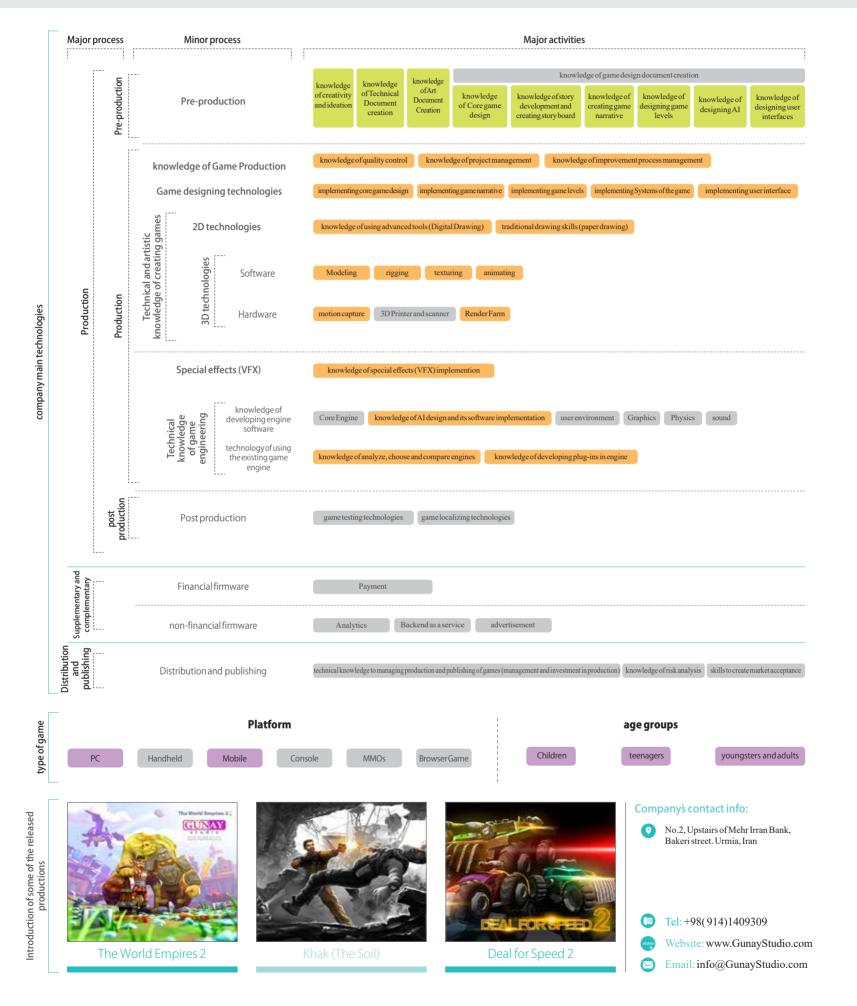




- 3D and 2D game producer in various Genres and platforms
- With more than 10 produced games
- Interested in Co-Production of new titles



**Gunay studio** 





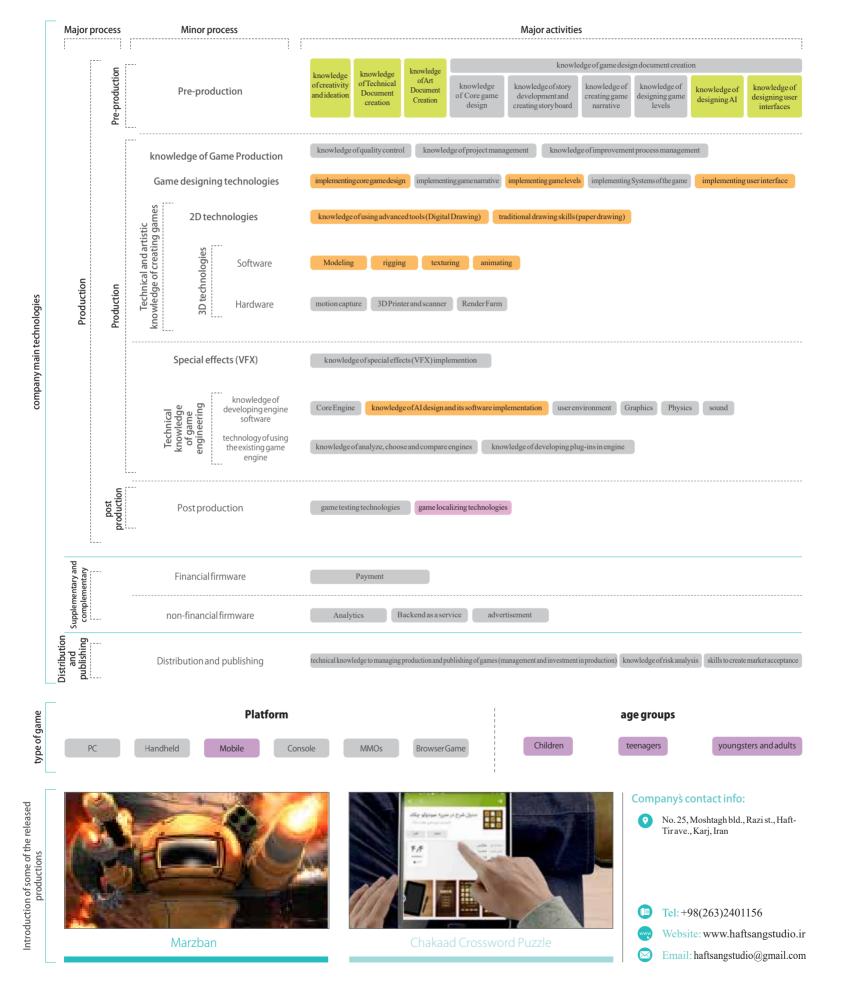
■ Mobile developer













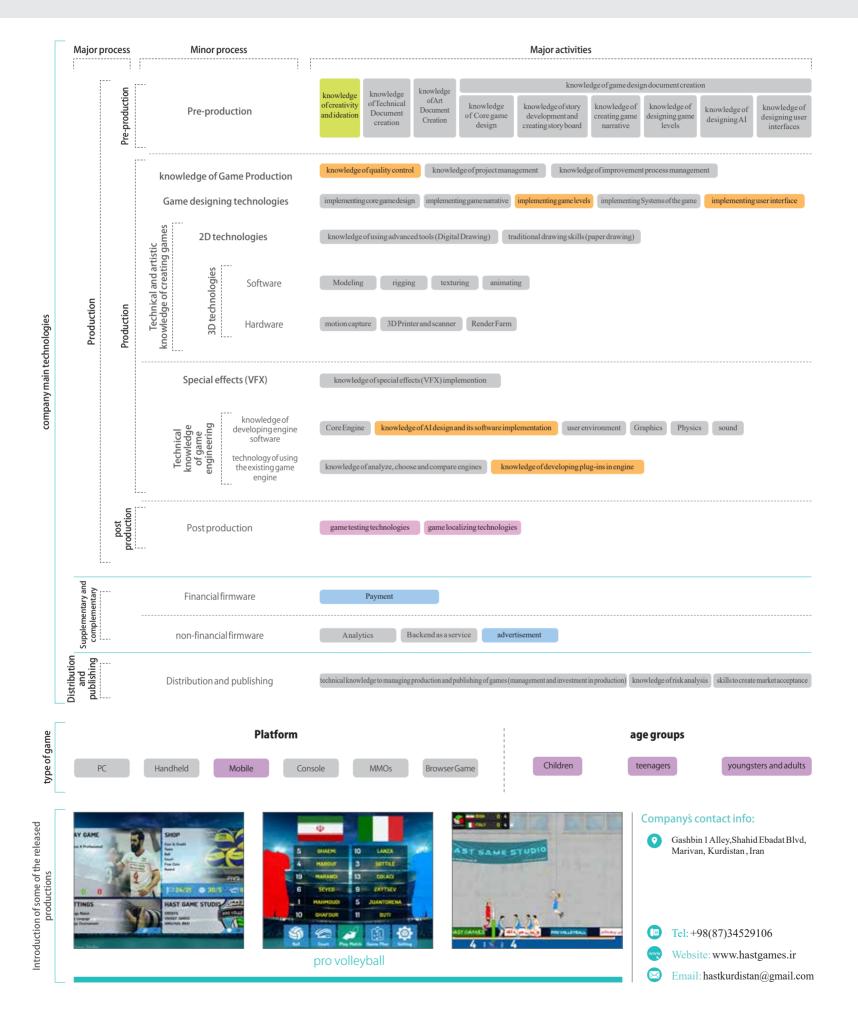
Yousef Zareie



Abolfazl Bazi

■ Independent game developer







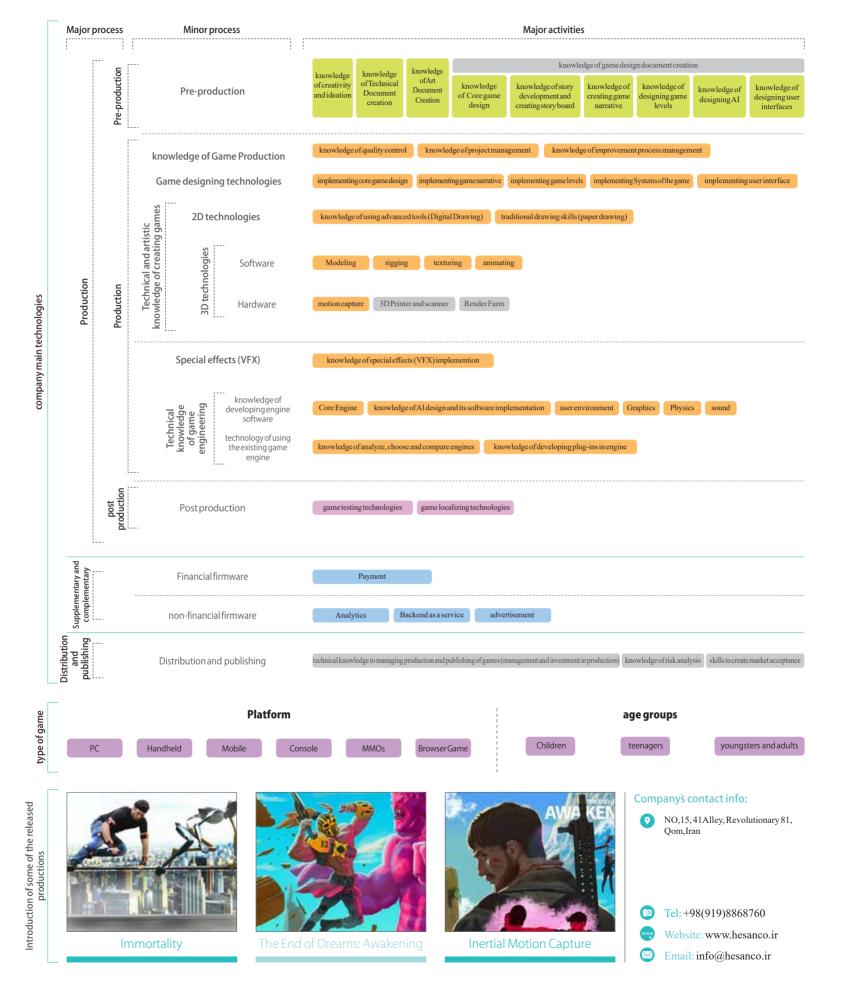
independent developer













Behnam Kashani



Farzaf Farazmand technical manager

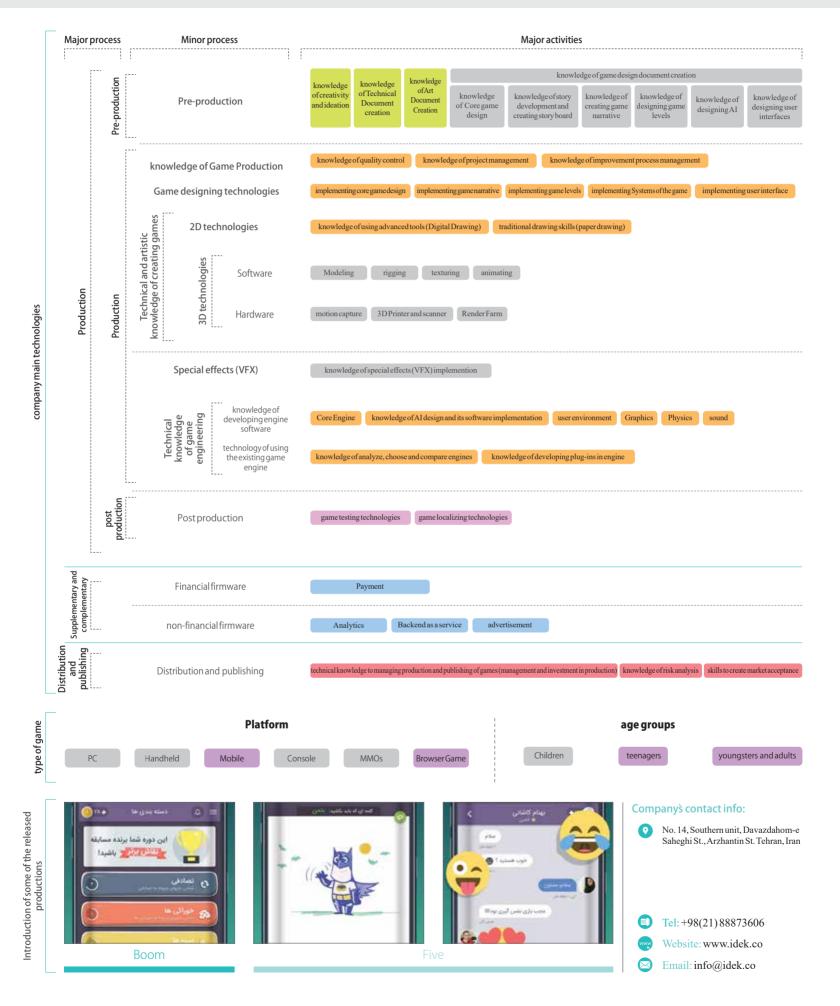
production of Online games

game export

game publishing

■ investing on game-producing companies

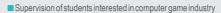






Serious Game design and development (PC/Mobile)

Communicating with people in different areas especially psychologists, psychiatrics and education to get informed about markebs requirements



Act as consultant to companies for content provision, knowledge base management, artificial intelligence in games and choosing appropriate educational strategy in game design and process

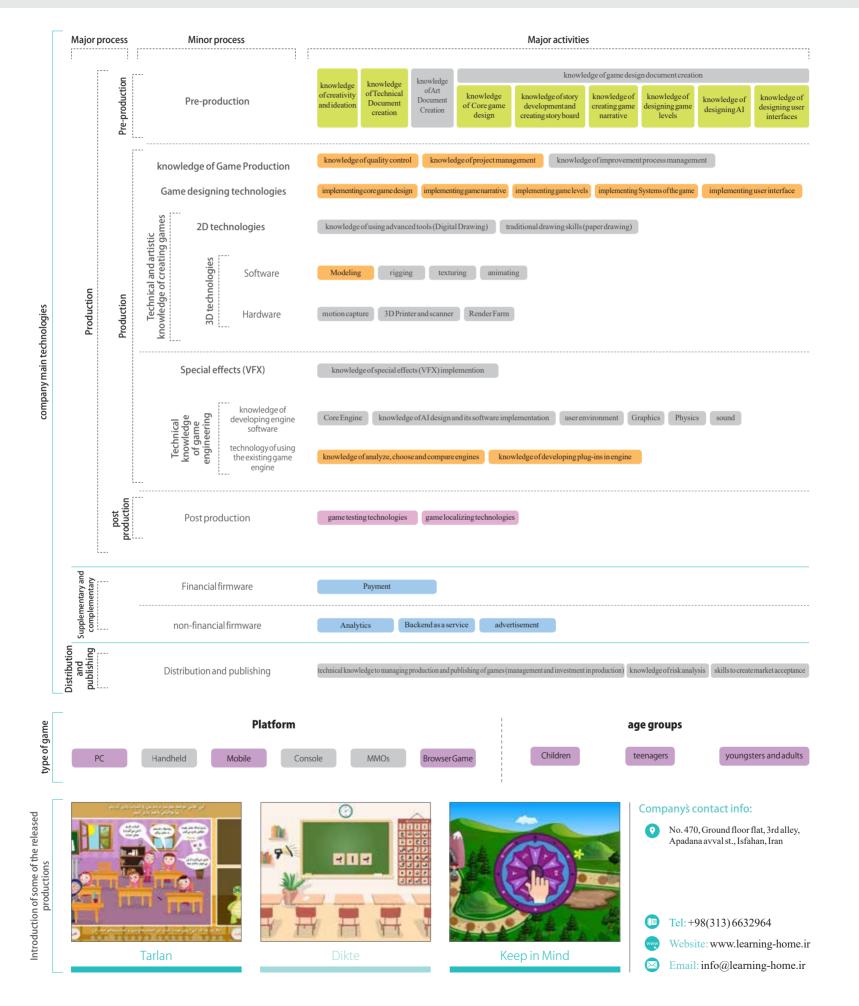
Atefeh Ahmadi Olounabadi CEO - Content Provider - Researcher

Ehsan Golahmadi

Game Programmer - Game

designer - Project Manager







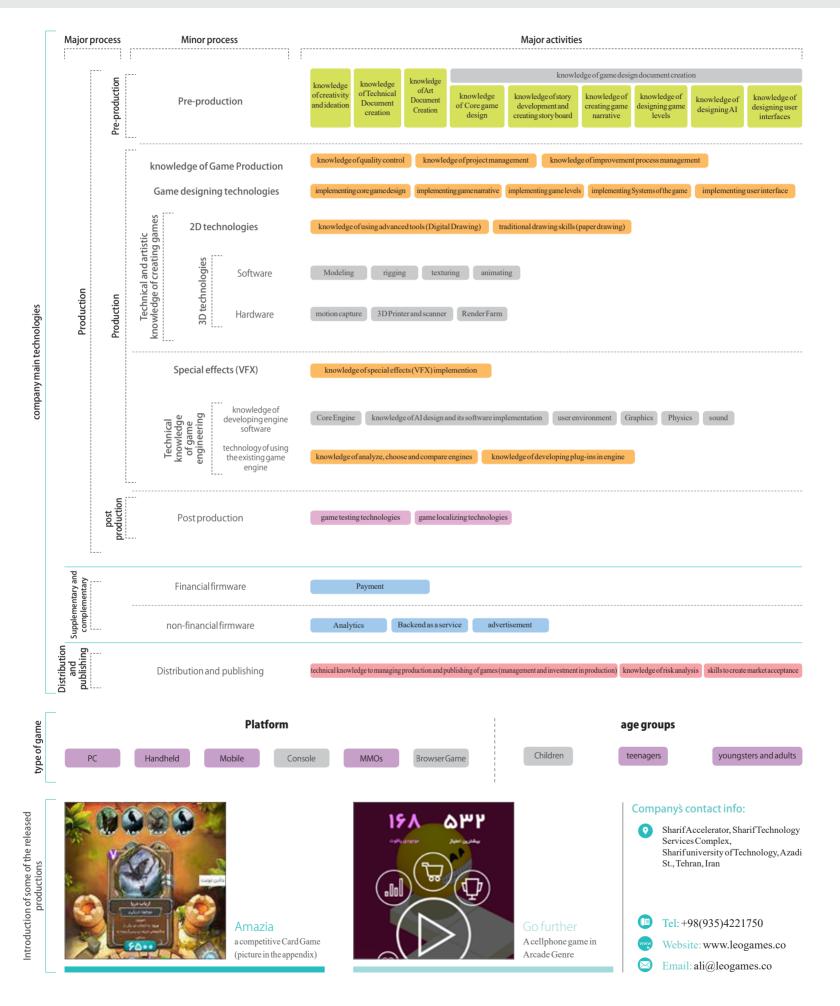
Sina Shahbazi Cofounder and game designer



Ali Oruji Aqdam Cofounder and developer production of serious

profound and modern games for national and international audience





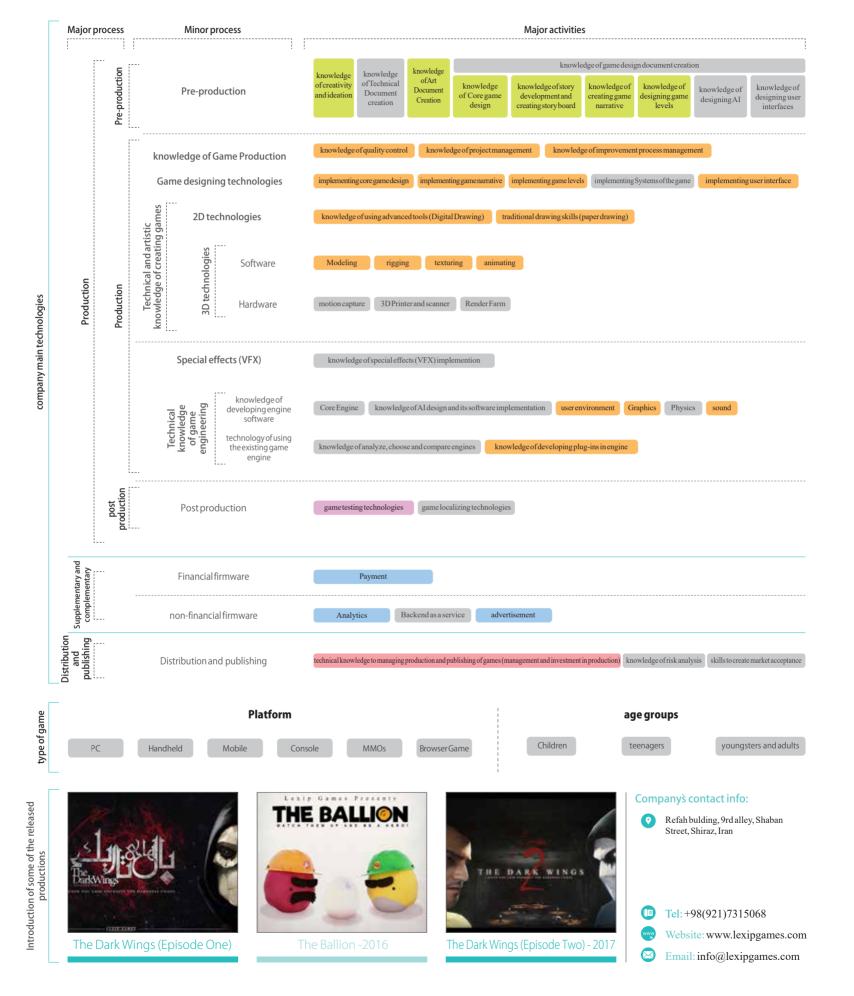
Persian developer of video games in Iran











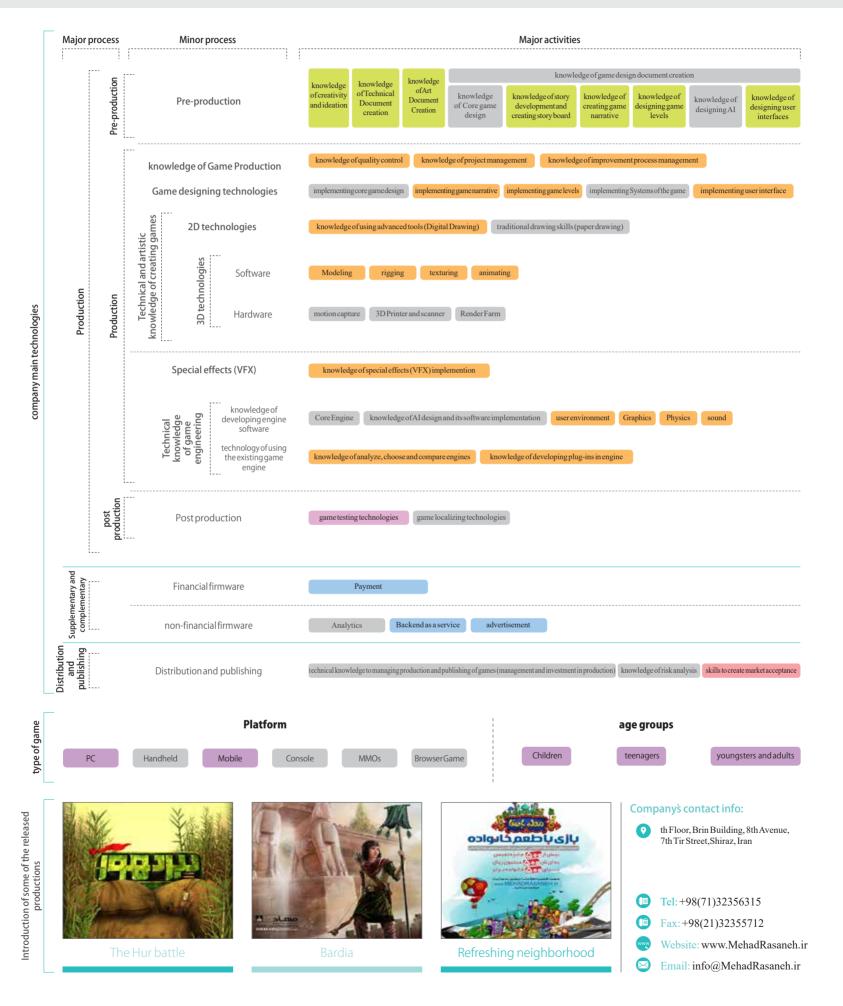


CEO/Studio manager/project



prodcution of Islamic-Iranian games with a focus on education alongside entertainment





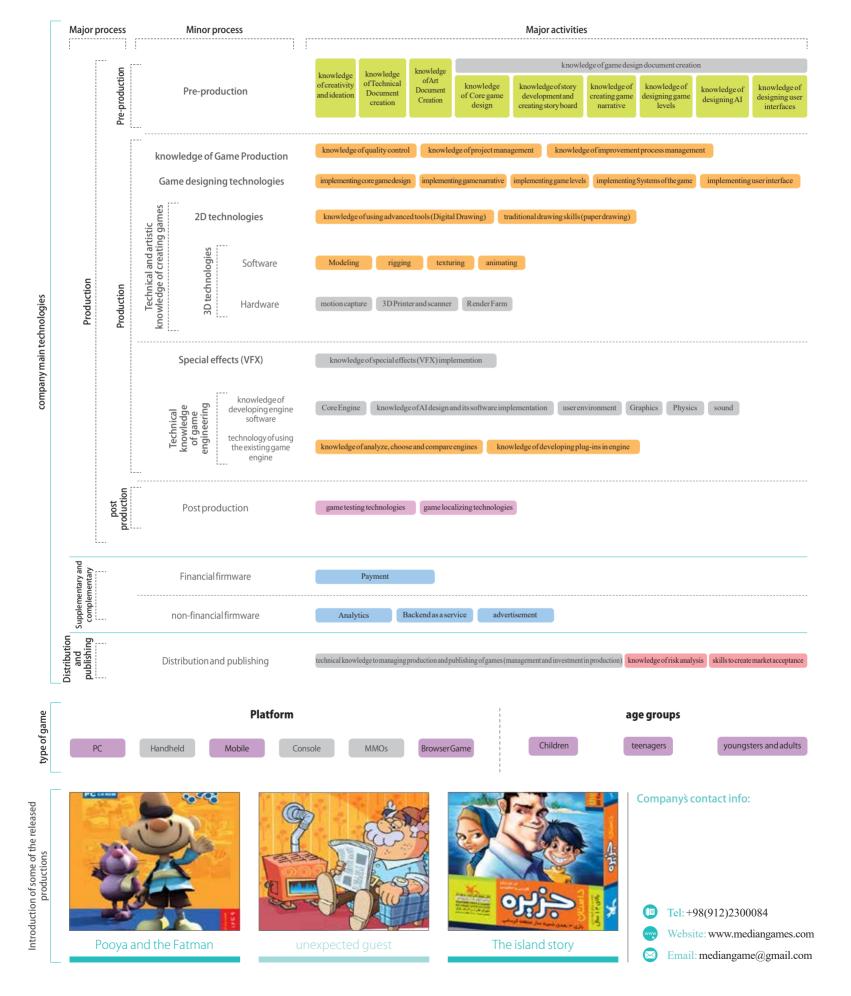


Median Game

- Mediangame is an independent game development studio has made games for PC since 2004. After making different games in different genres now we focused on mobile platforms.
- We are a small team with big ideas and the skills to deliver them. So we think about the cooperation that will lead us to making better games.

Amir Mohammad Rezayi







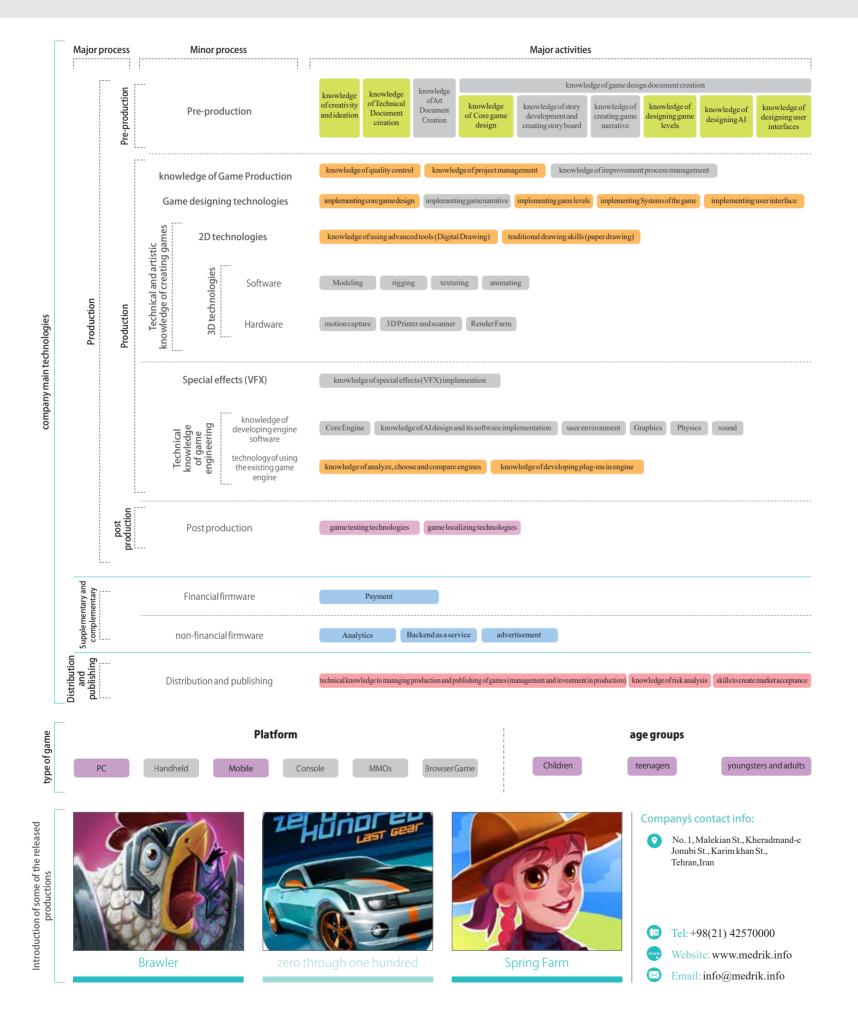
Mohammad mehdi Behfar-e Rad



Behrooz Bahrame server technical manager Cellphone game builder



Medrick





Moon House Entertainment ■ Cellphone game builder

PC and Console game builder

publisher

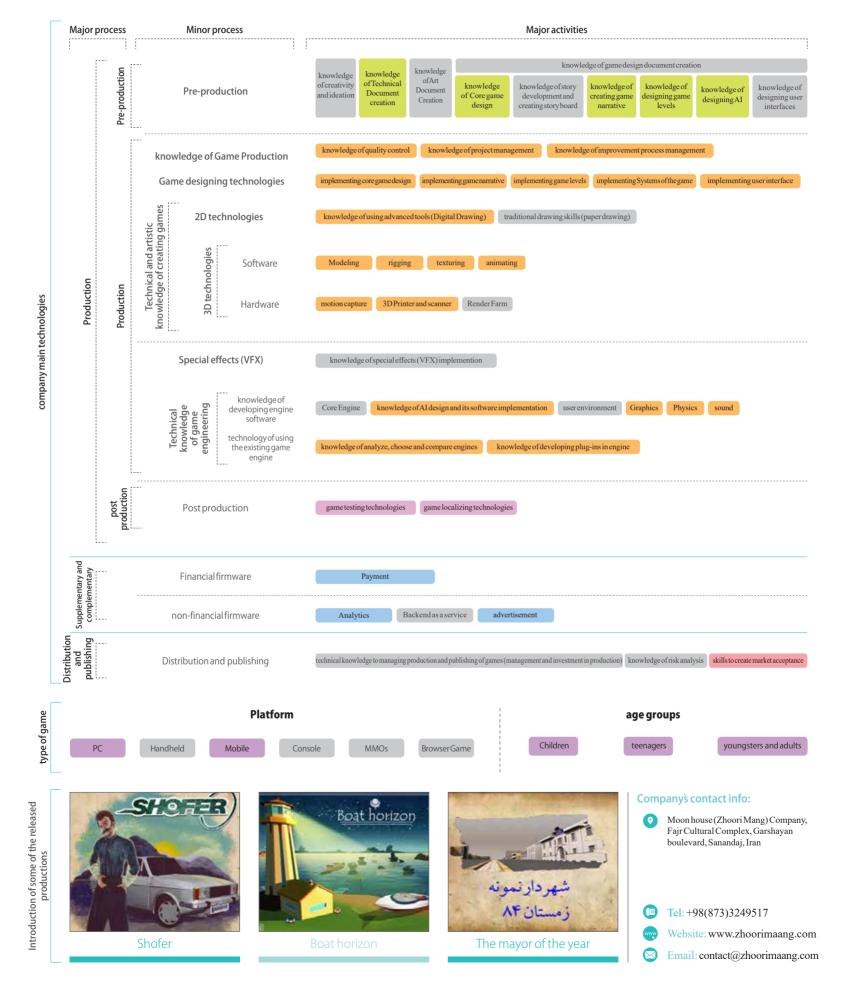
education centers











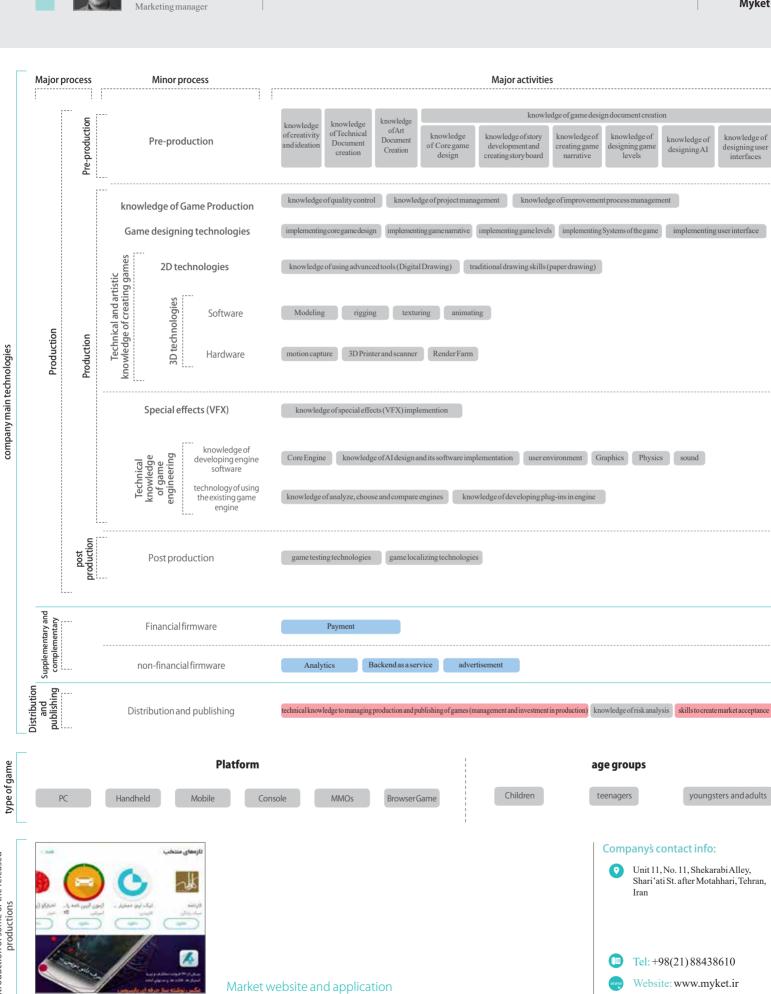


company main technologies

Introduction of some of the released

digital market





Email: info@myket.ir



Cellphone game developer
 publisher
 investor
 services: data analysis
 Video streaming

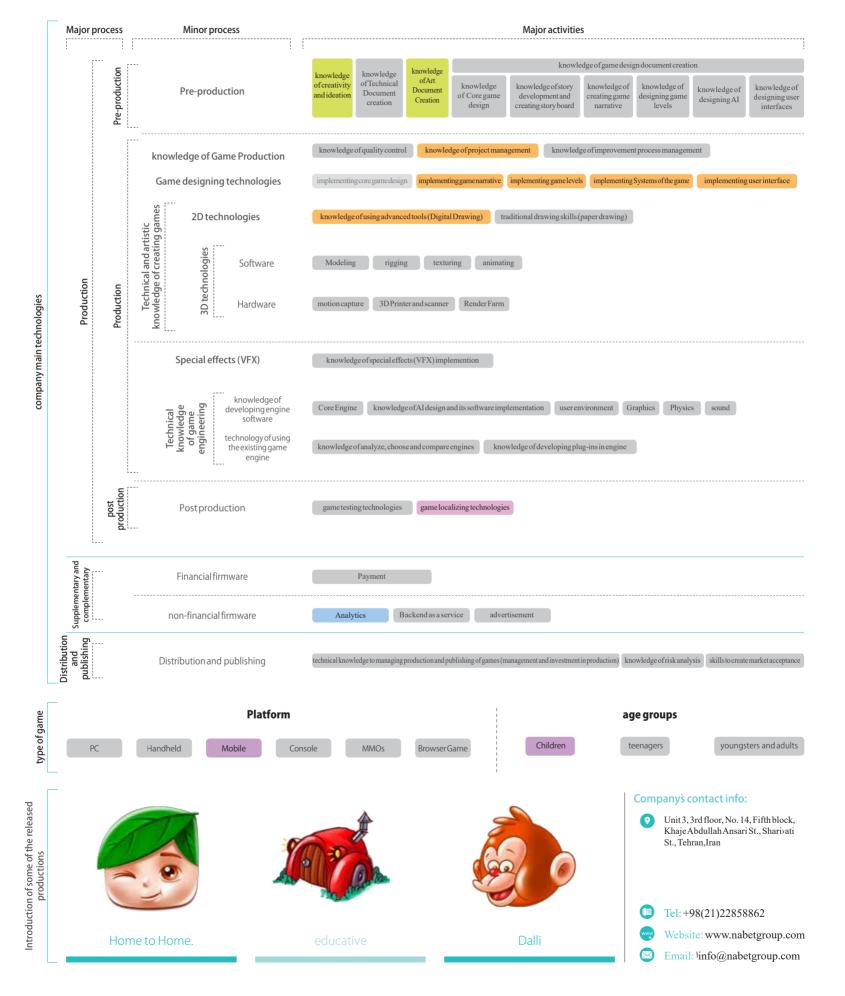
converting 2D images to 3D ones





Neda Mathnavi Data analysis projects



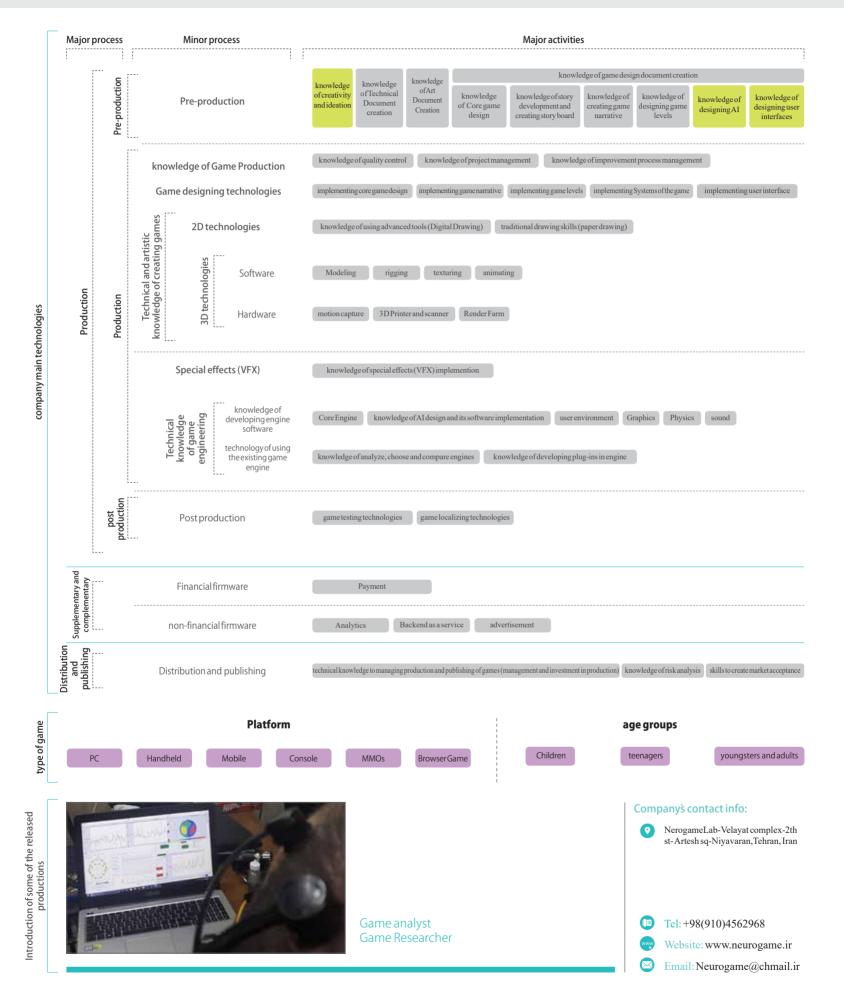




Game analysis\_Checking and recognizing computer games
 Analyzing computer games through brain engineering
 recognizing content elements in computer games
 extracting influential features
 recognizing the elements that trigger these features
 and building targeted games and enhancing specific features.



NeuroGame





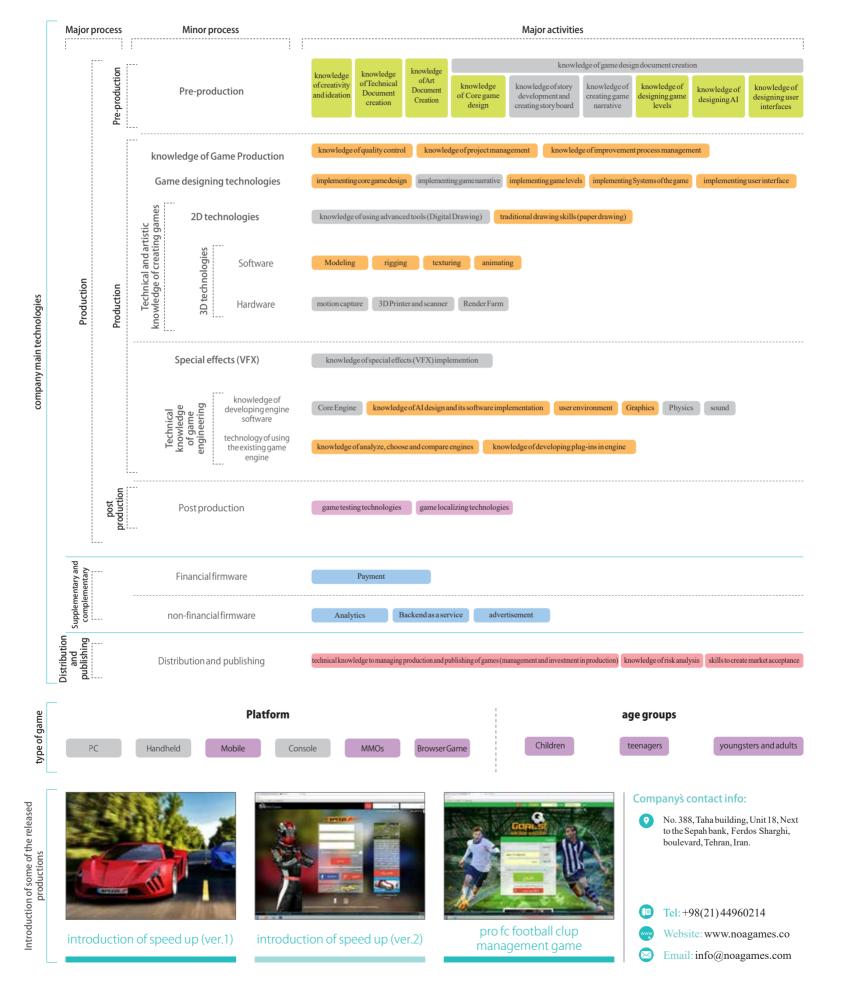
■ A Game development company which have always preferred quality over quantity. We are currently making browser games, mobile games, VR, AR and doing some experimenting with MR projects













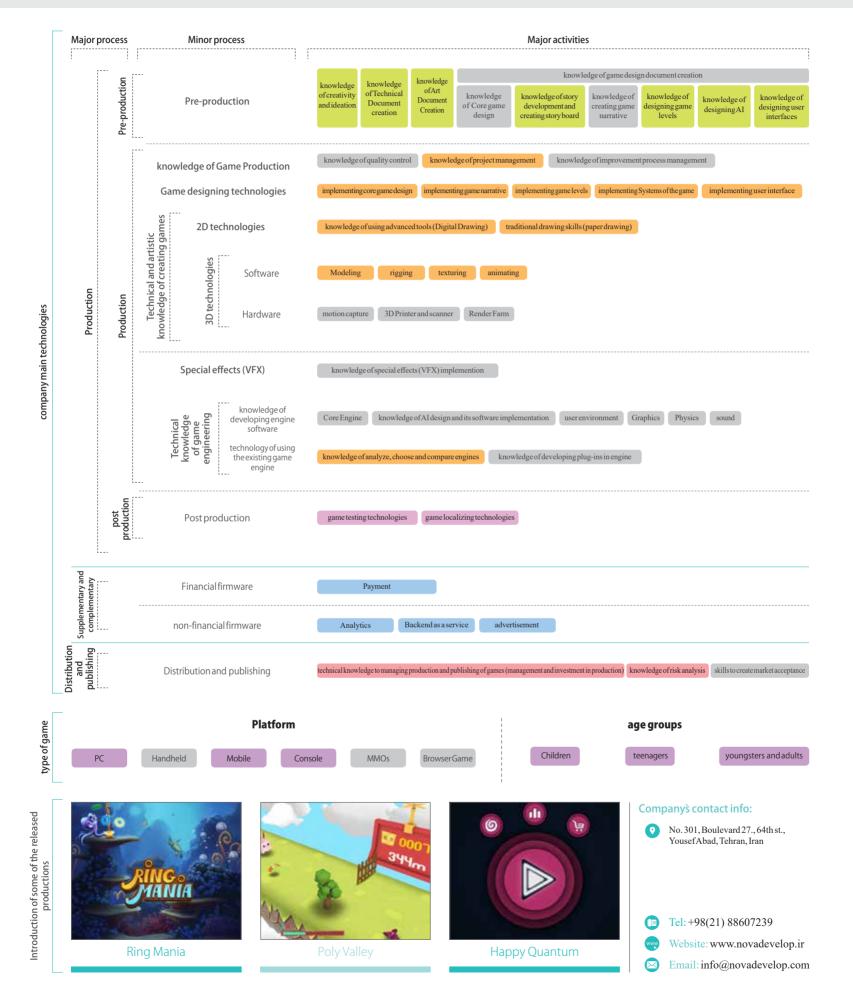
Esmail Sabouri CEO & Co-Founder



Mohammad Reza Izadshenasan ■ PC & Consoles games developer

Mobile games developer







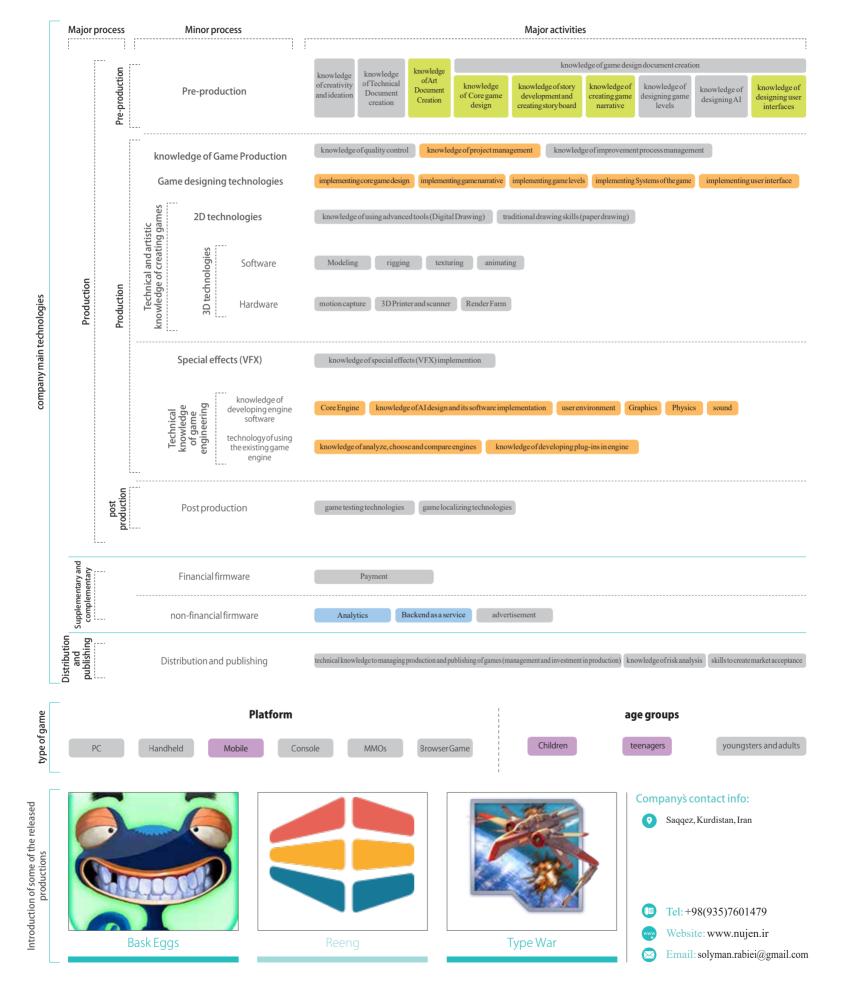
■ independent game developer in Kurdestan





Mohammad Mirzaei Developer

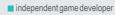


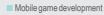




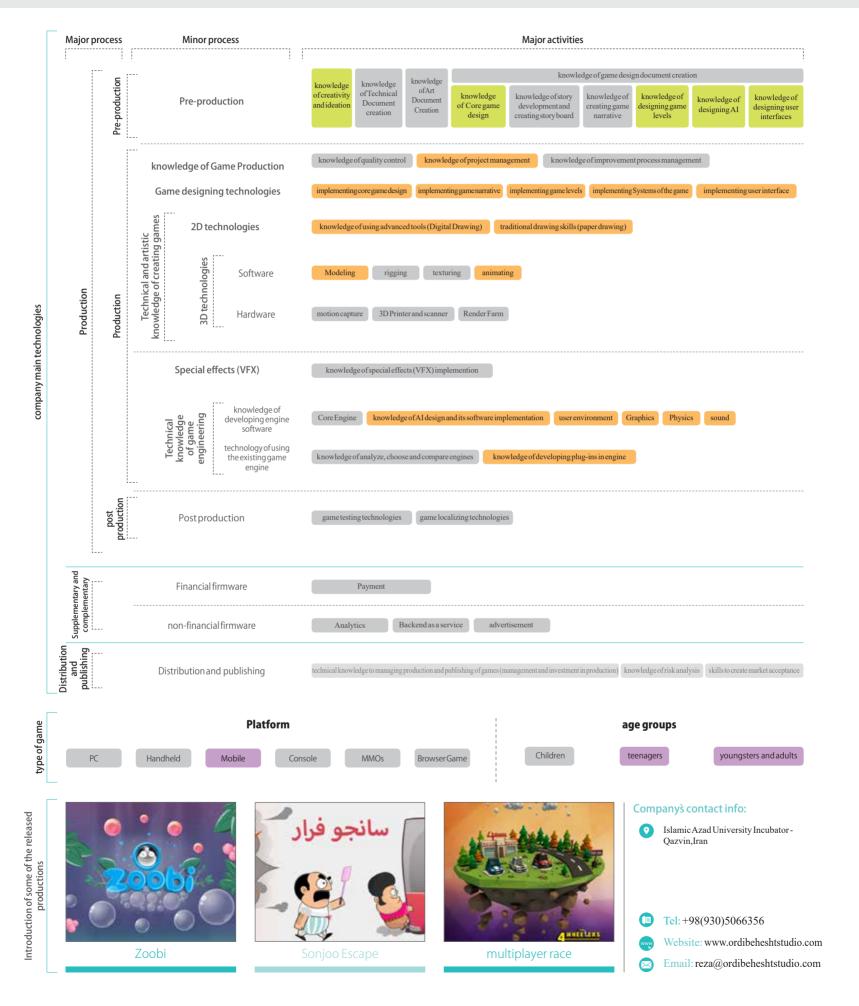
Mohammadreza Hassanzadeh Team Leader & Game Designe













■ PC & console developer

mobile developer

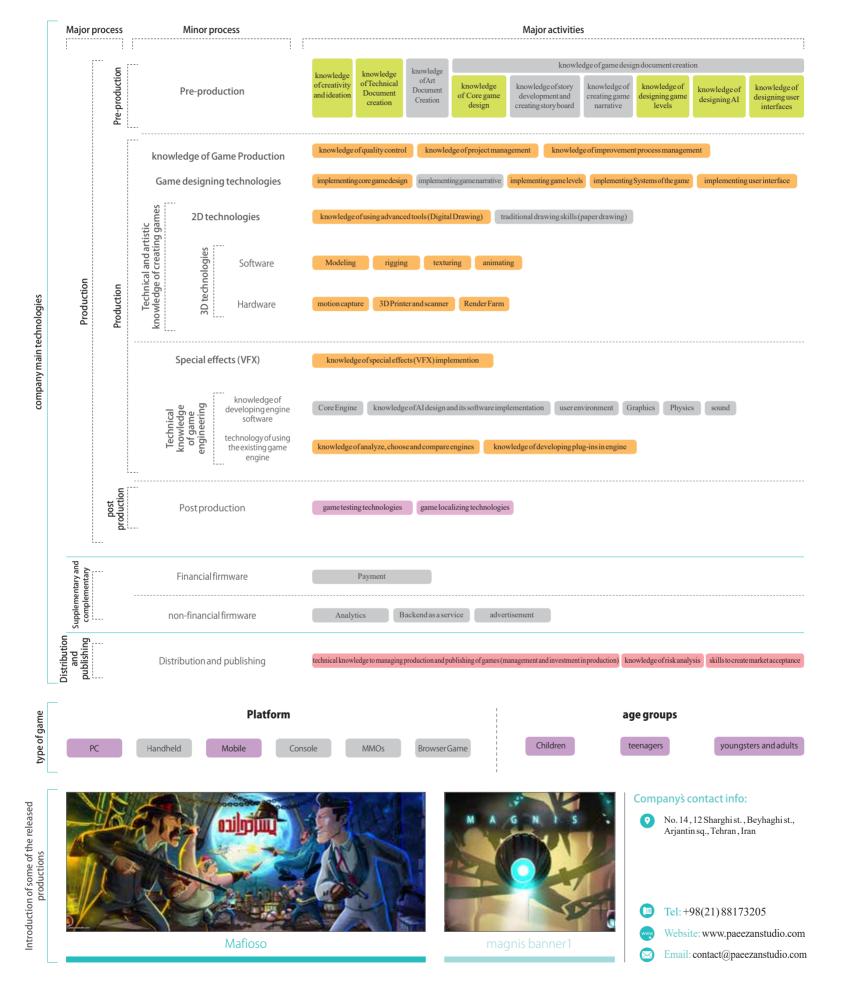
publisher/buyer

Mohamad Zehtabi



Siavash Jafarzadeh
Technical Director



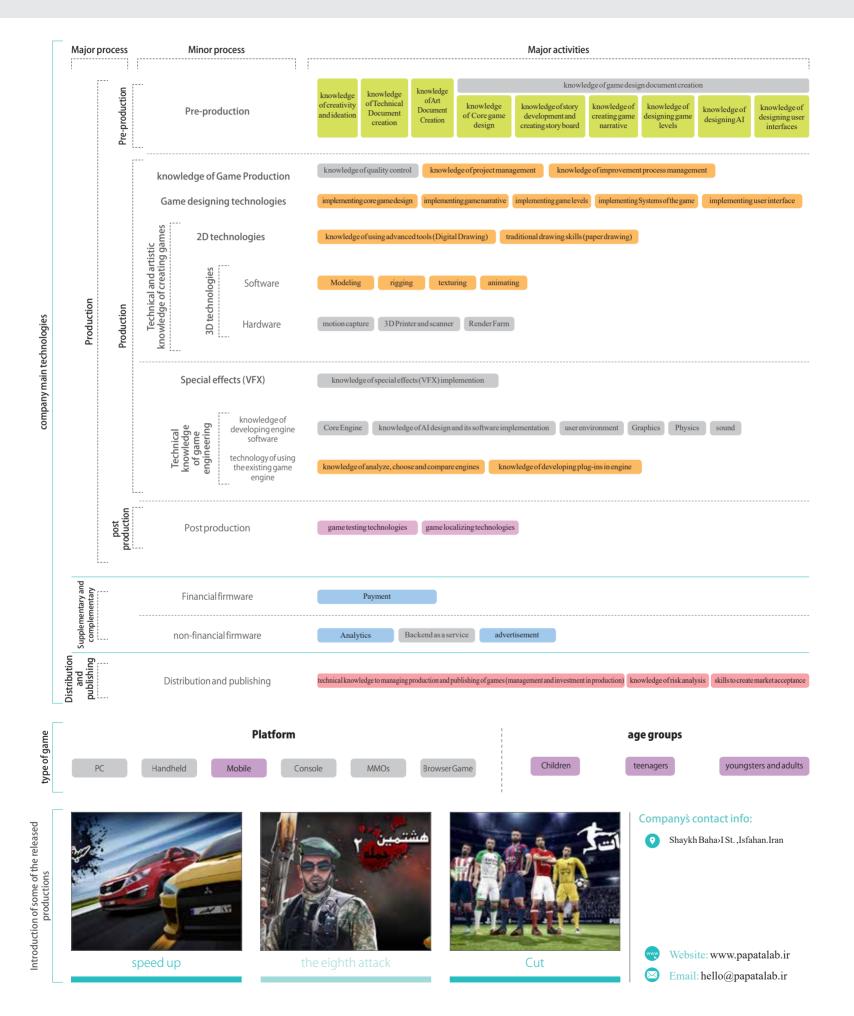




Hossein Mazru>i Studio manager

- A. missions: 1-conducting research and educational programs according to company objectives
- 2-production, distribution and publication of video games using variety of digital and analogue technologies inside or outside Iran.
- 3-contributing to the growth of game industry and educating capable workforces
- B. Activities: 1- production and distribution of Iranian video games.
- 2-conducting computer game exhibition
- 3-conducting specialized workshops
- 4-conducting specialized conferences and festivals in the field of video games.
- 5-providing technical service and guidance in the production of video games.
- 6-production of films and extracting game contents







Parsnip Game Studio



■ PC and consoles de

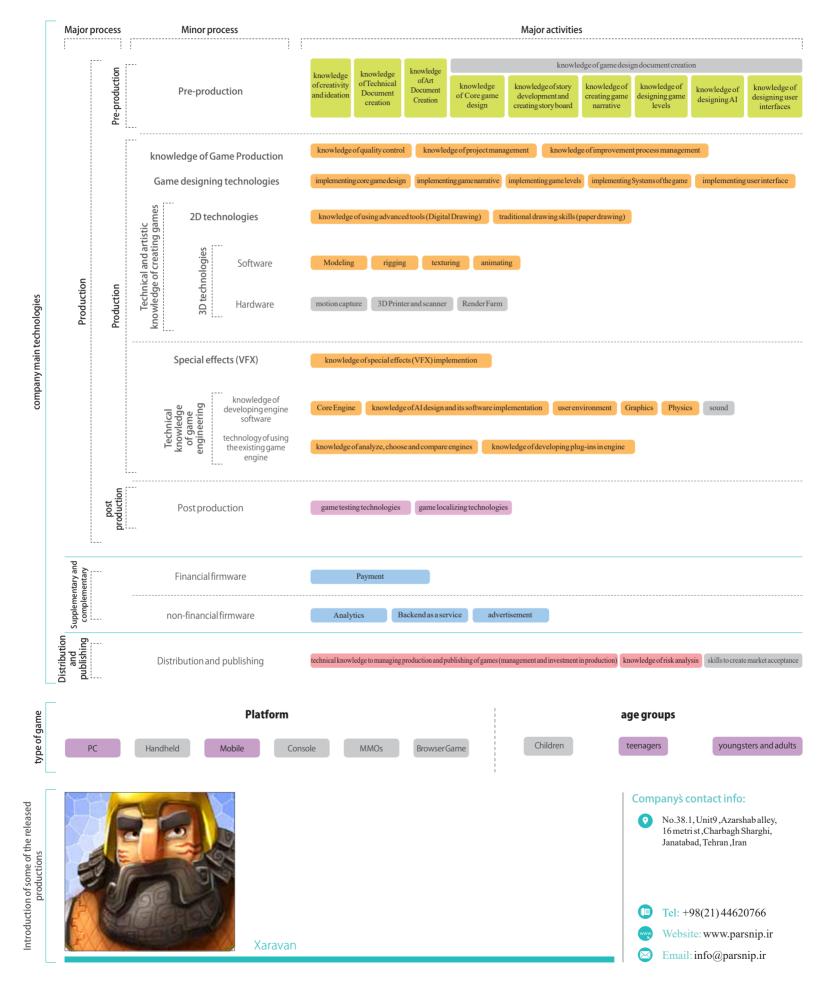
service provider













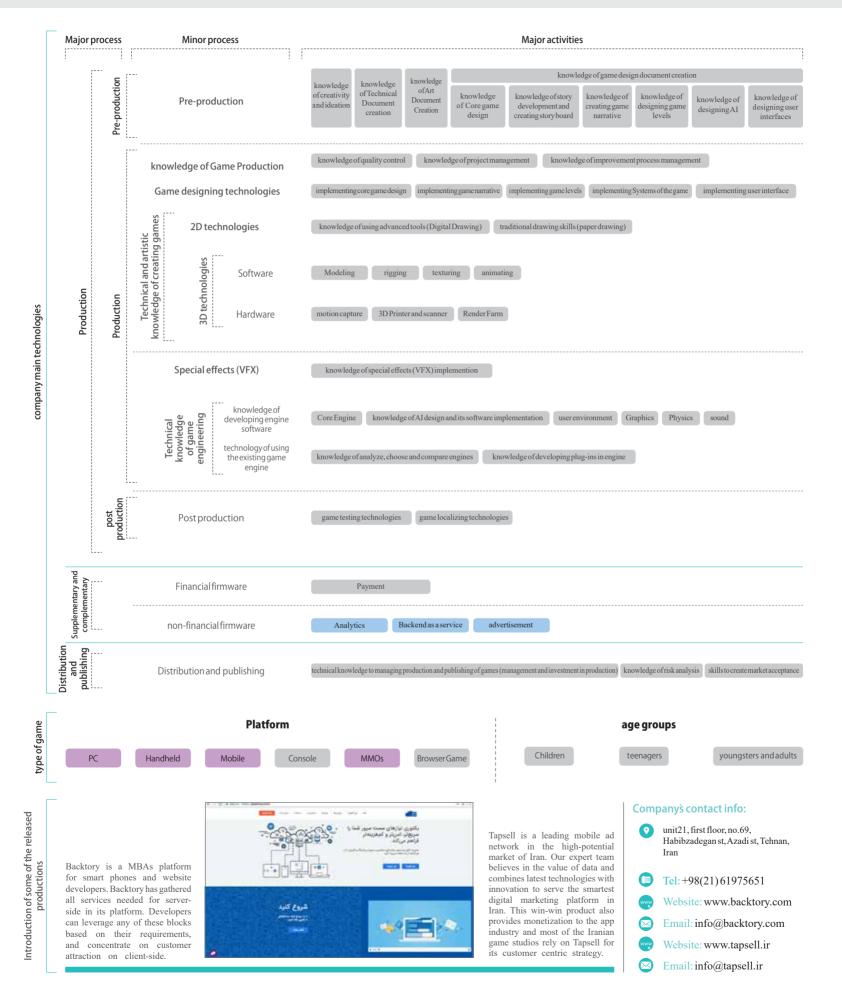
Javad Abedi Backtory's Product Manager



Sobhan Foroughi Tapseel's CEO ■ Backend-as-a-service for games

Ad network







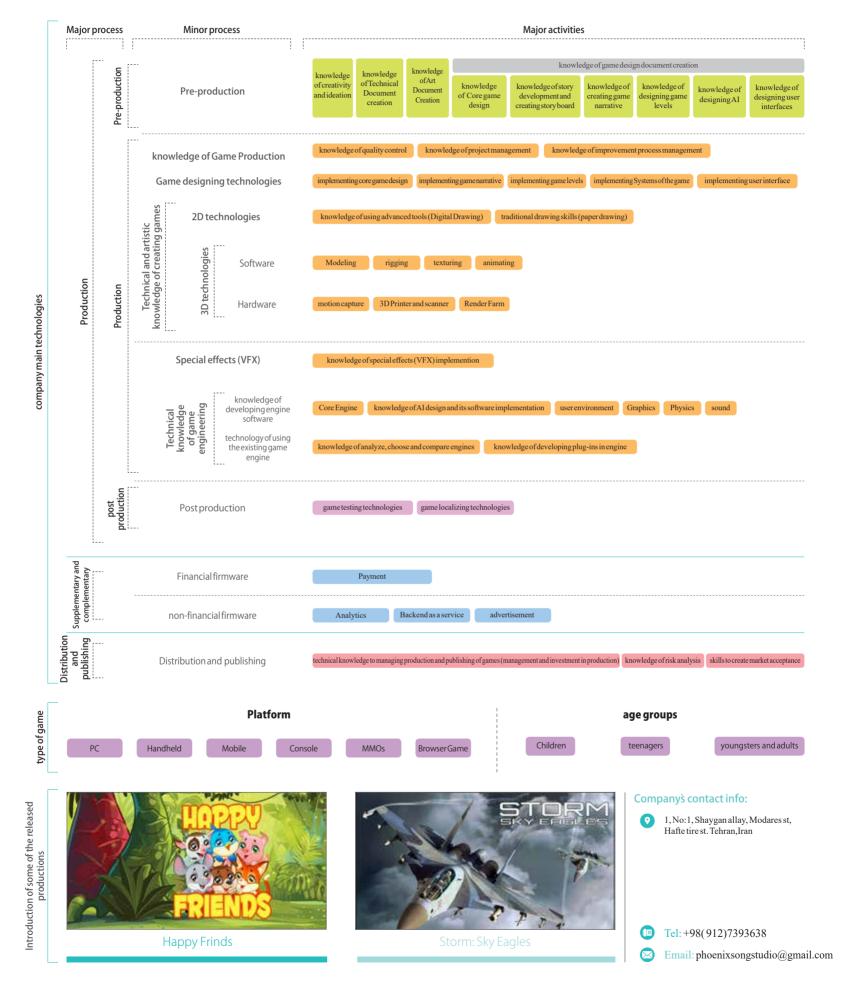
■ Introducing cutting-edge technology and software to the video game market Phoenix Song is now involved in all areas of the video game industry

Somaye Saffar



Hamid Jalili nejad







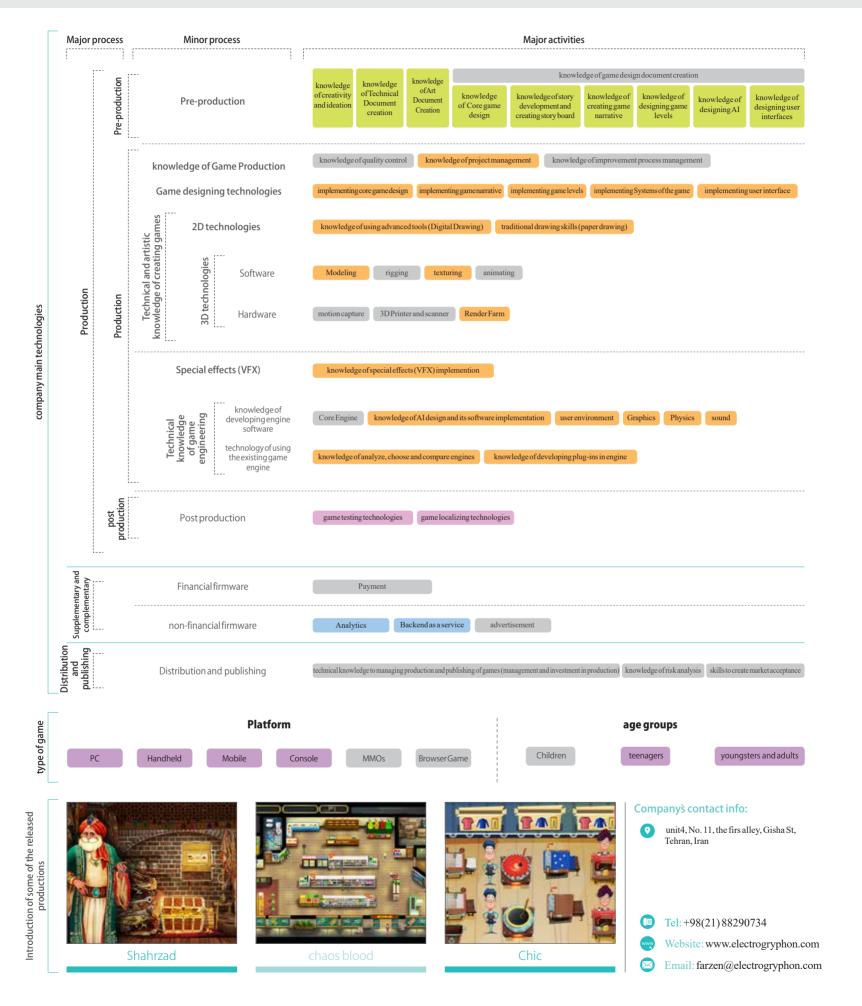
Farzin Jahan Bkhsh



Mohammad Iraji Technical manager Cell phone and PC gamebuilder and console



processors





Raspina Studio

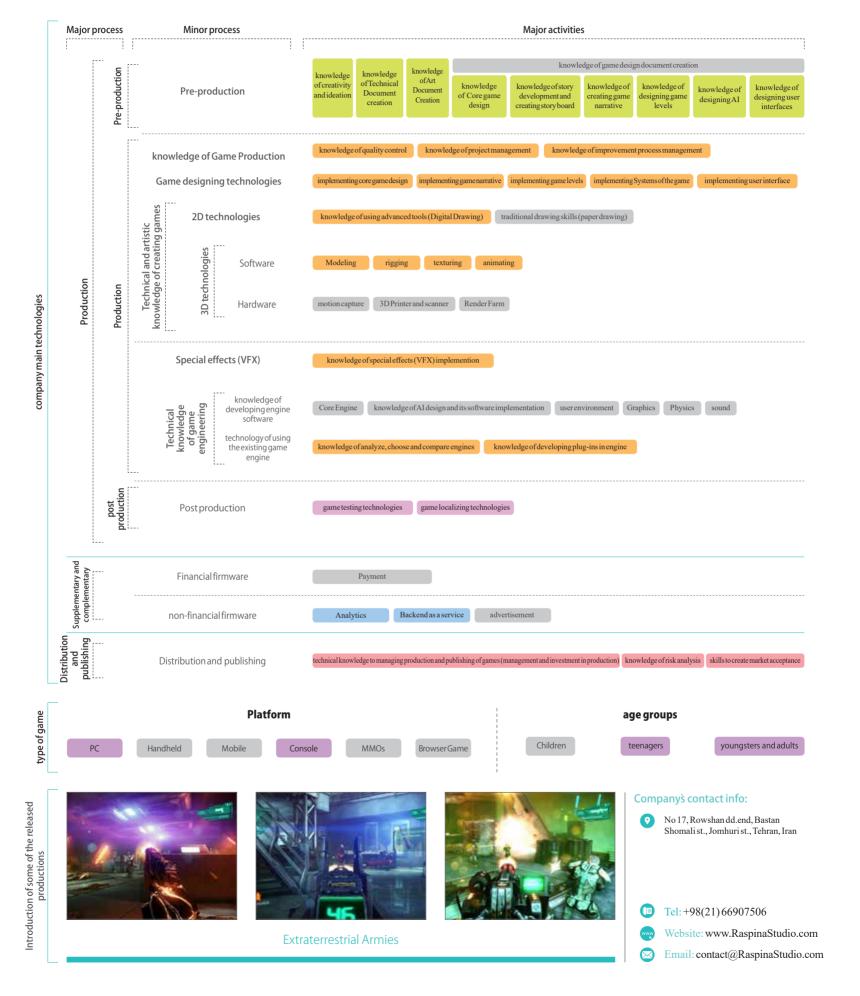
■ Raspina Studio is a team of enthusiasts gathered around with the main goal of creating high quality PC games. The sompany was established in 2012 and has developed E.T. Armies game.





Keyvan Ebrahimi Art Director







SeyedAhmadMousavi



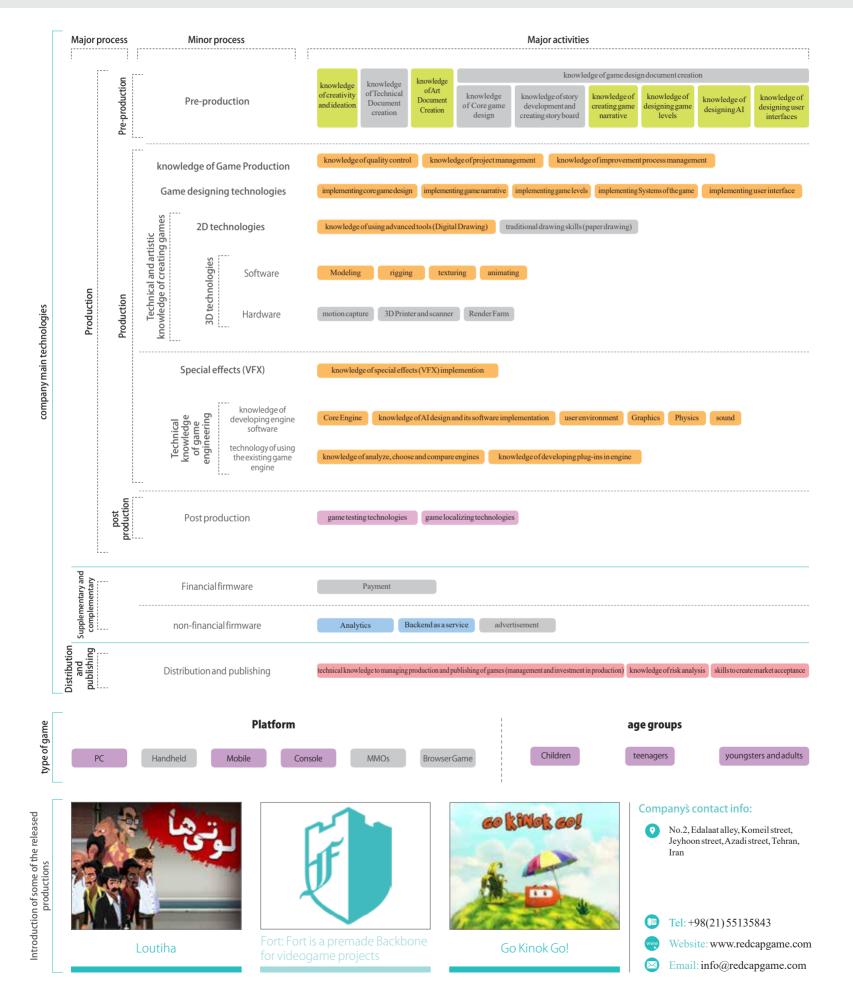
Arash Jafarzade Technical Manager ■ Mobile Developer

PC & Consol Developer

Publisher

Accelerator



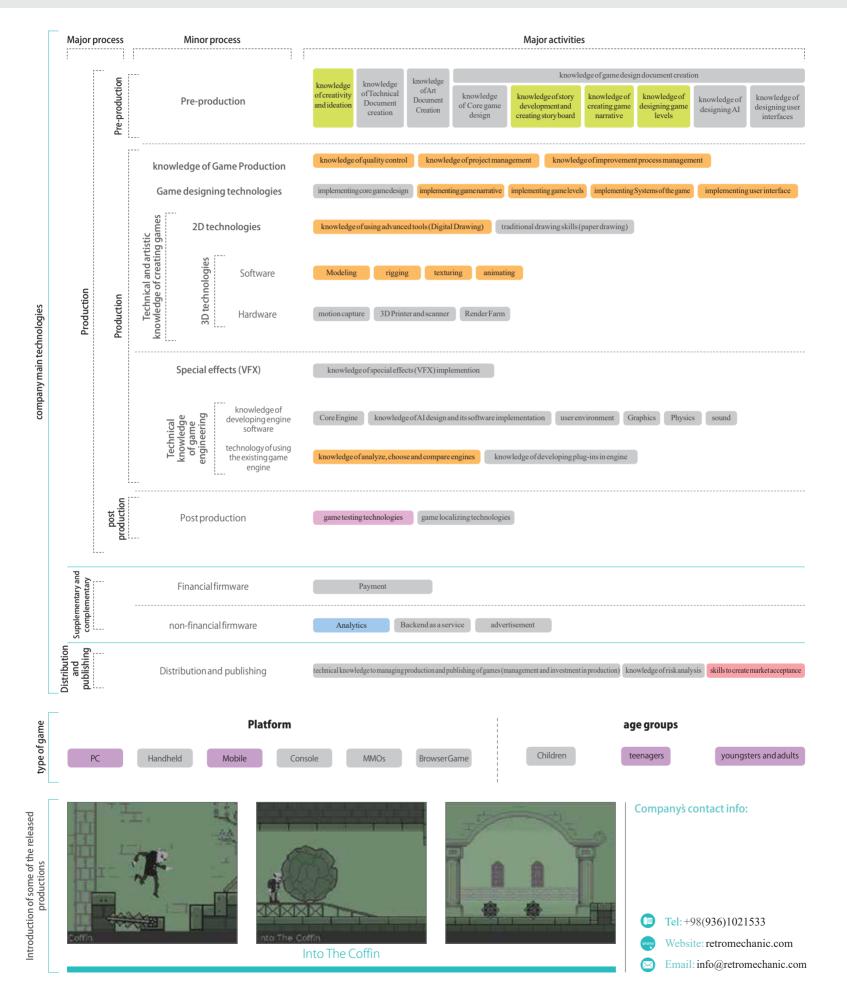


Retro Mechanic

■ RetroMechanic is an indie game developer from Iran. A two-man team that founded in Summer of 2016 by AmirSaman Chenaghchi (as game designer) and MohammadReza Chenaghchi (as music composer). We've started "Into The Coffin" project as our first game in 2016.



**Retro Mechanic** 



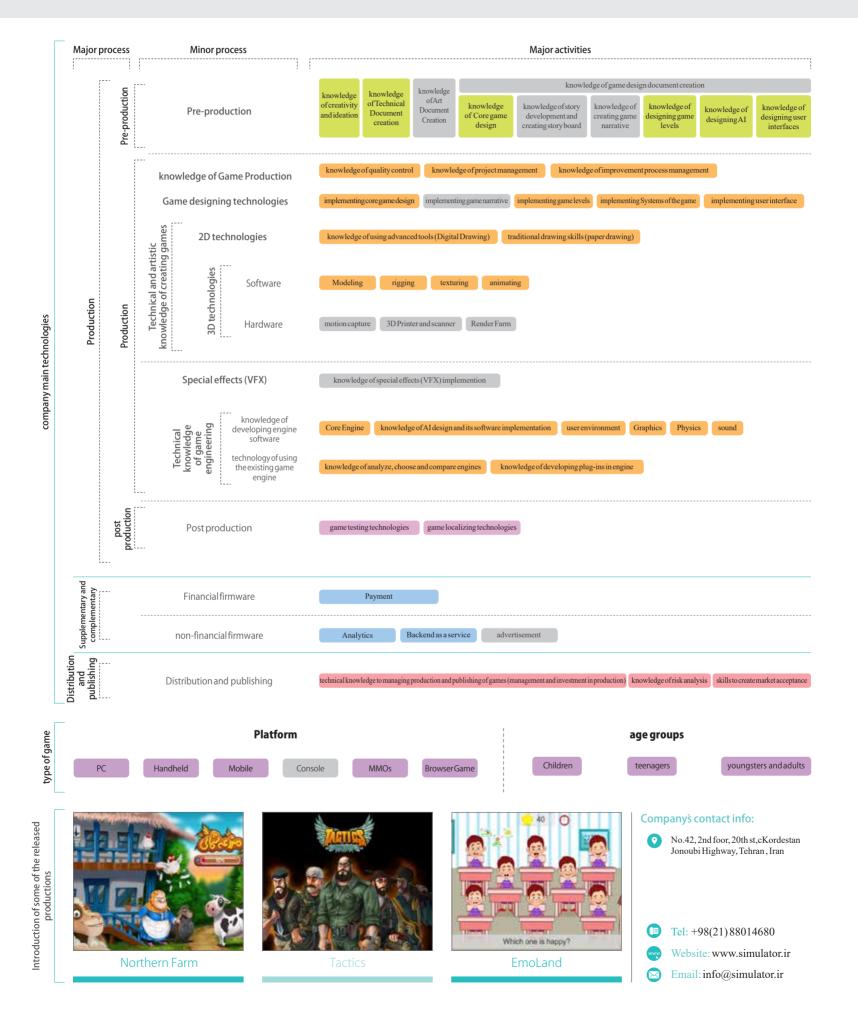


Farzam Molkara

Mobile game developerPC and console game developerservice provider

publisher/buyer







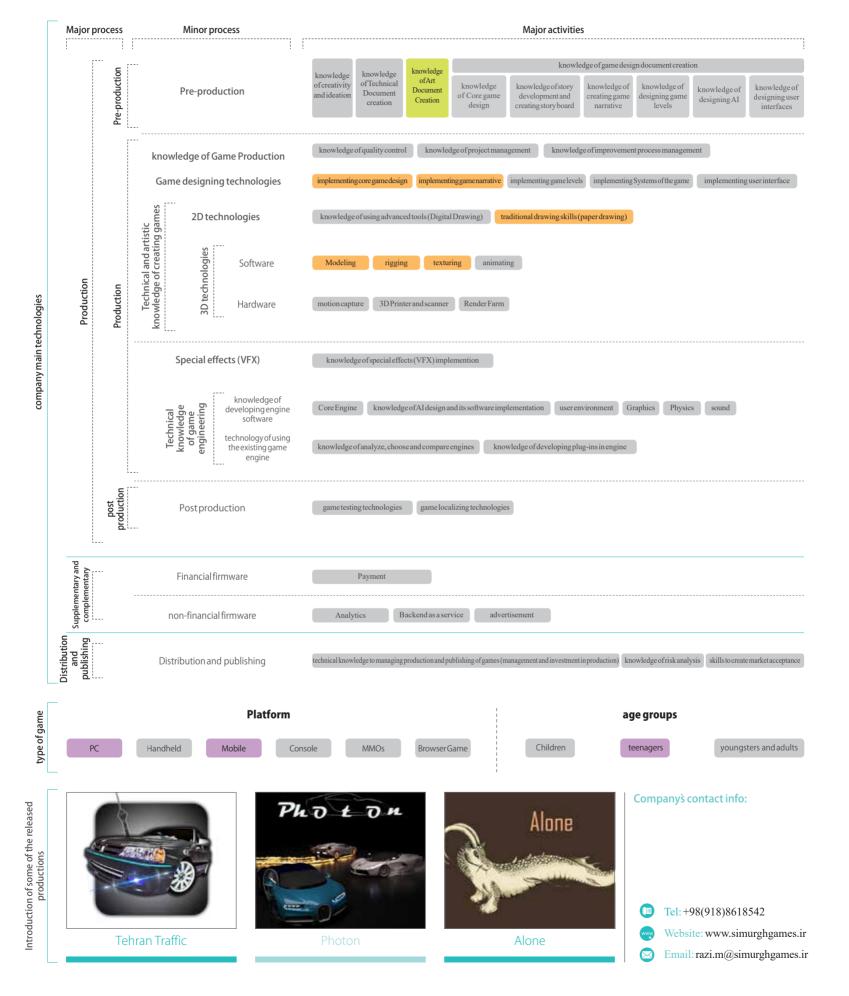
Independent game developer





Erfan Moattin

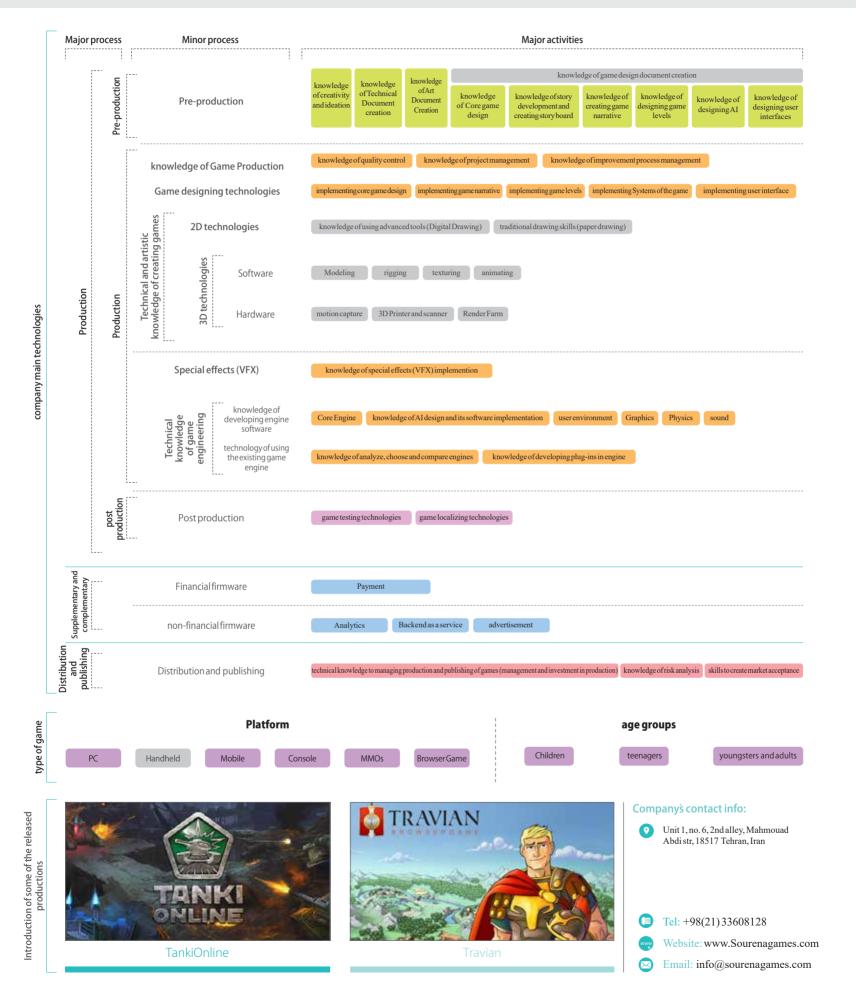






Hassan Mehdi Asl CEO - Founder and Business developer ■ The misions and the main activities of the company in the field of the game industry: Sourena Game Studio, is established as producer and distributor of online, mobile and PC games in 2008, also provides a section to for online payment known as "Allpays" system which is a strong online payment platform for foreigner companies to get paid and an easy way for them to gain money from Iran's Market since 2016.

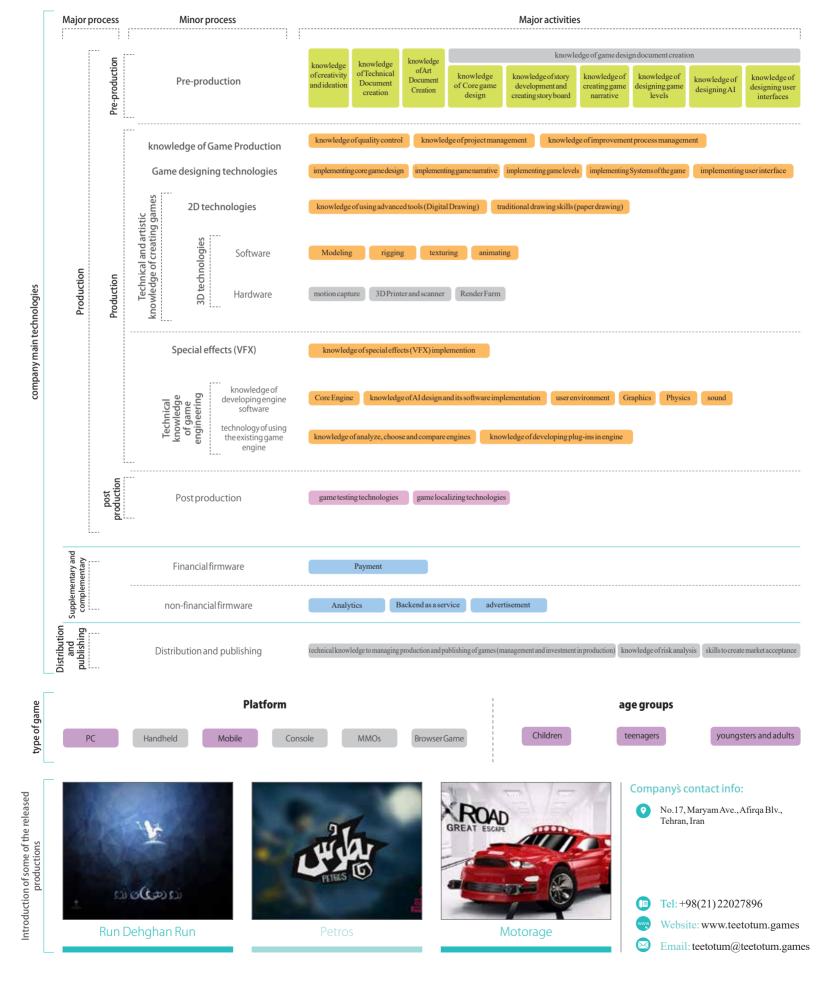






**Teetotum** 

FU9:USU





Ali Nadalizadeh

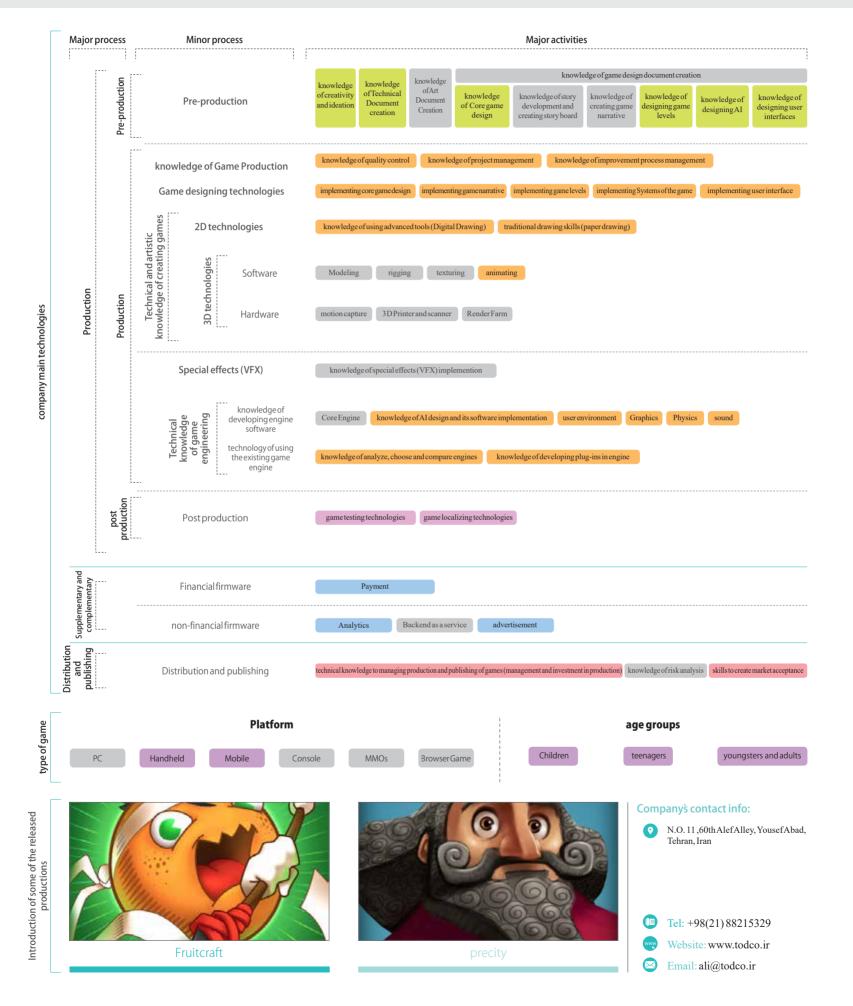


Hosein Ataei Fard Project Manager ■ «TOD is a game development company that uses its young talents to develop the most innovative games. The group is made up of some of the best game developers, designers, and data analysts who work in a friendly and dynamic environment. Since 2004, the company has released over 30 iOS and Android apps to the local and international market. In the past couple of years, the company has focused its attention on the local market. The country's only Apple software company Sibche and the online games «»Fruitcraft»» (with more than 200k Monthly Active users) and «»PerCity»» (> 60k MAU) are most successful titles produced by TOD.

Softwares developed by the company have been acknowledged by world media outlets, including The Independent, Guardian, Wired, and BBC. Situationist, an iOS app has been nominated by the MOMA (Museum of modern arts) as a top application



Tod





■ Using the most advanced technologies to produce attractive and profound games in cellphone platforms

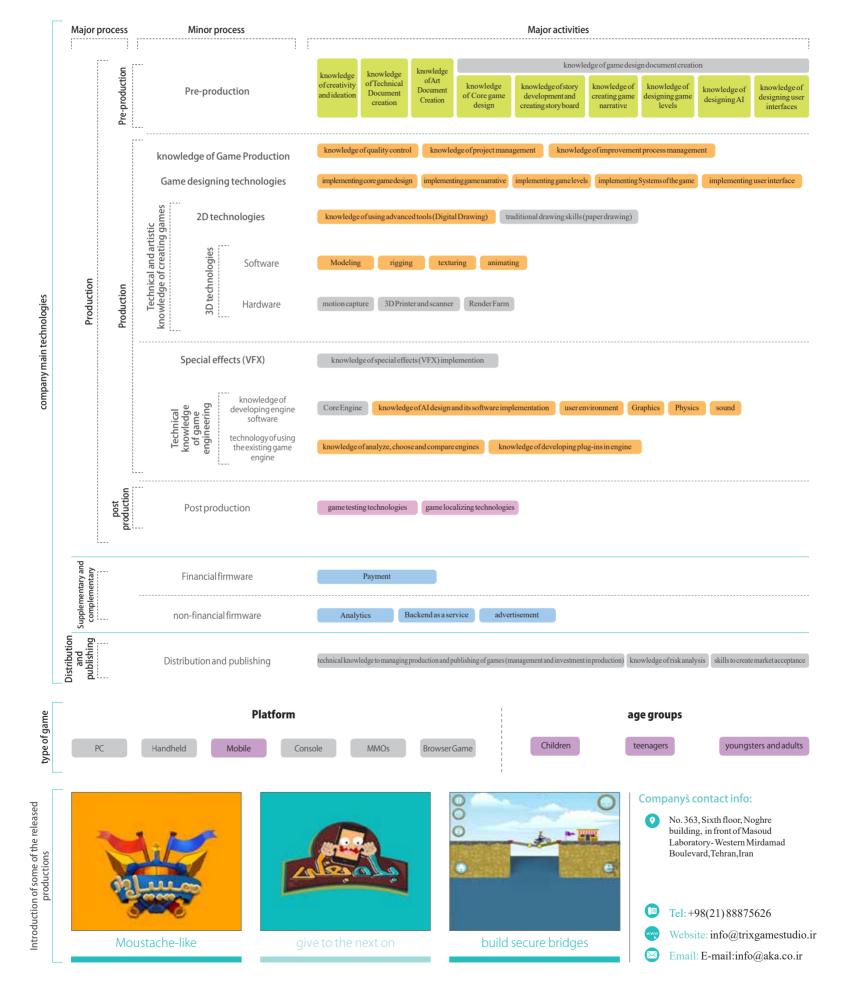
production of light games





Saber Soleymani







Seyed Mehdi Mirdehghan



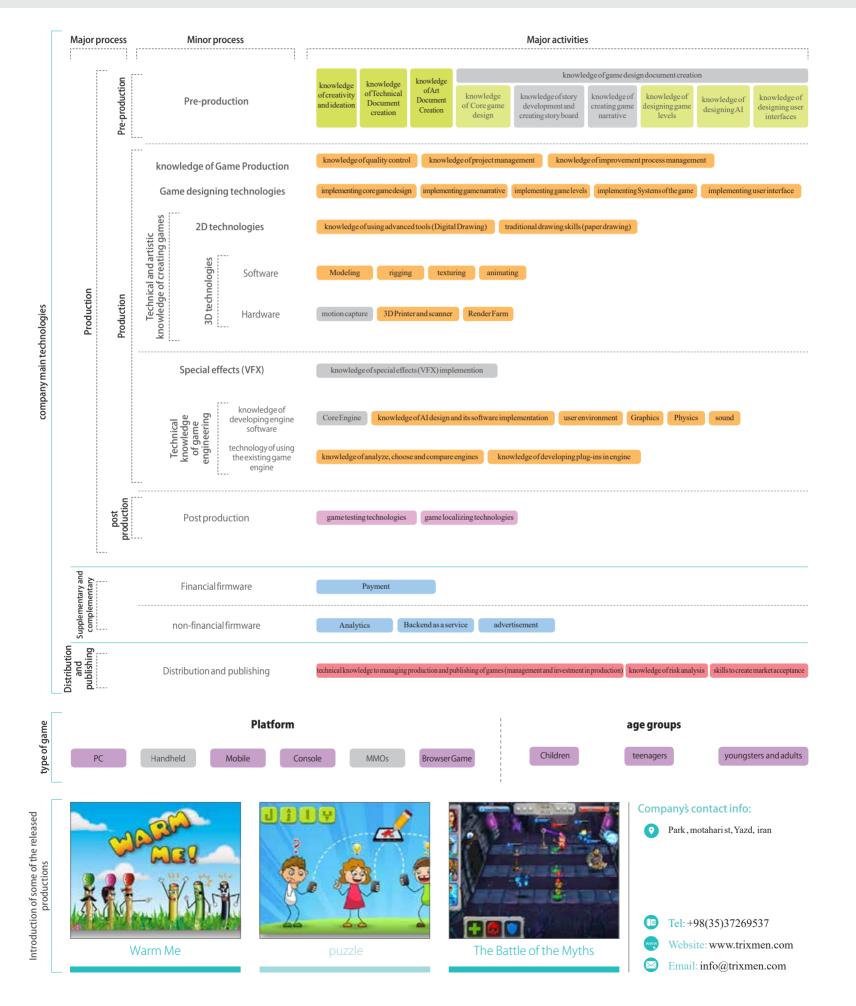
Mohammad Dehghan

■ PC & consoles developer





Trixmen Game Studio





studio

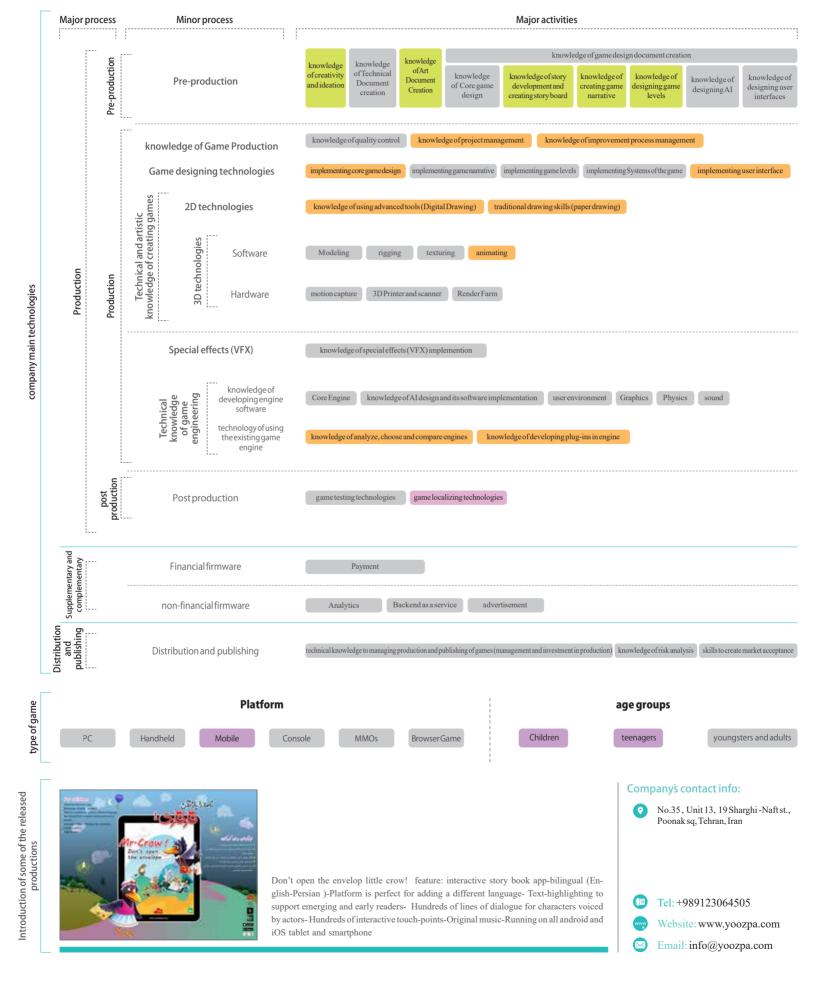
■ Mobile developer





Katayoun Vahedi senior art director and production manager





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**Vice Presidency for Science and Technology** 

The Soft technology development council of the Vice Presidency for science and technology of Iran, according to its overall plan to advance the video game technologies, after identification and study of different technologies and design of a technology tree, has decided to publish a book on video game technologies. In this book, besides the classification and introduction of advanced technologies of world in the field of video game, Iran`s technological capabilities in this industry are explained in the form of introduction of practitioners of this industry.



**Vice Presidency for Science and Technology**