



Parallel Session 1 – Station Design 1

Master plan for Qazvin Rail Station with the TOD approach



UIC next station
TEHRAN 2019

Lida Eslami

Herampey consultant engineers

Managing Director

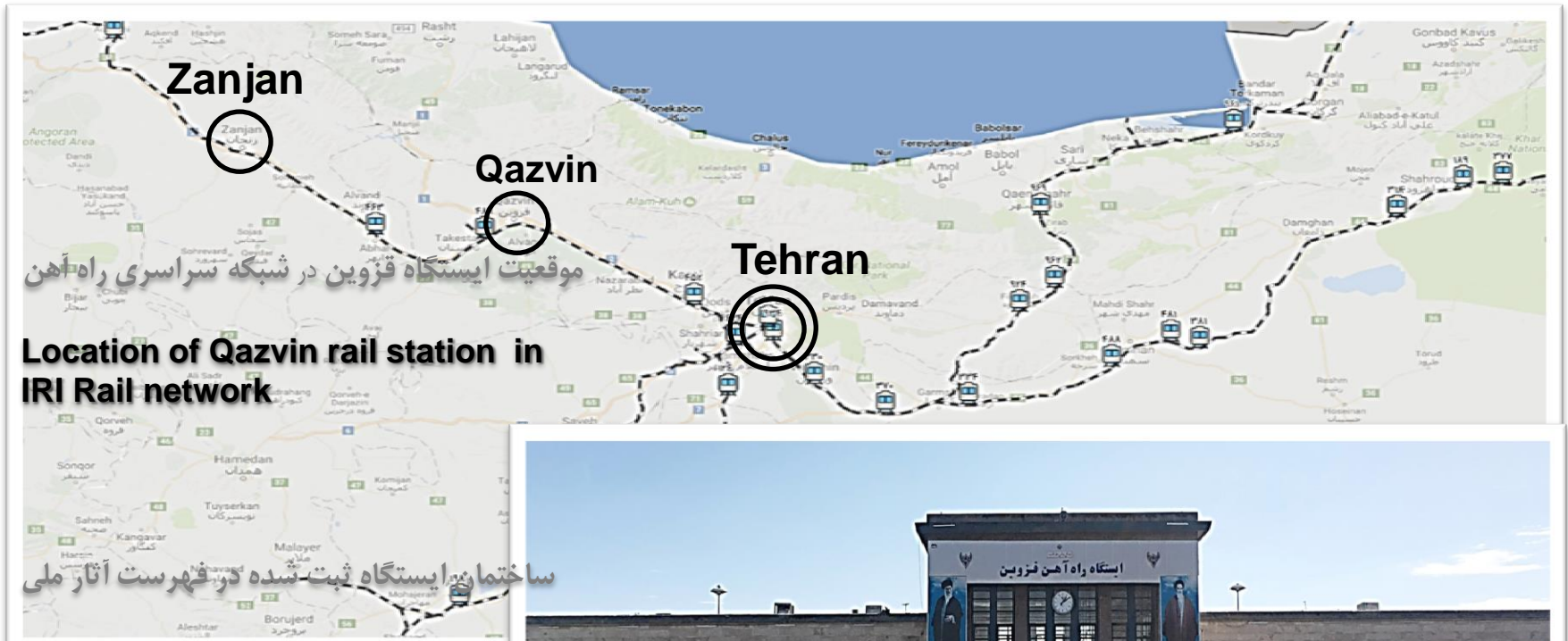
Main design criteria



- According to the integrated Rail transportation network of Iran
- Development Plan for horizon 1415
- Development in South part of Qazvin
- Improvement the legibility of the historical context by strengthening the historical axis
- Possibility to invest and attract domestic and foreign investors in different sectors
- Preserving humanism in design
- Increased environmental responsiveness
- Functional physical connectivity with the city

Mission of the project :

- Locating Qazvin Railway Station in the Integrated network of IRAN Railways .
- In harmony with future transportation development plans and in optimal interaction with Qazvin City.
- Reduce distribution and sales costs of services and internal and external traffic dilemma.



Registered in the list of Iranian national heritage- built in 1939

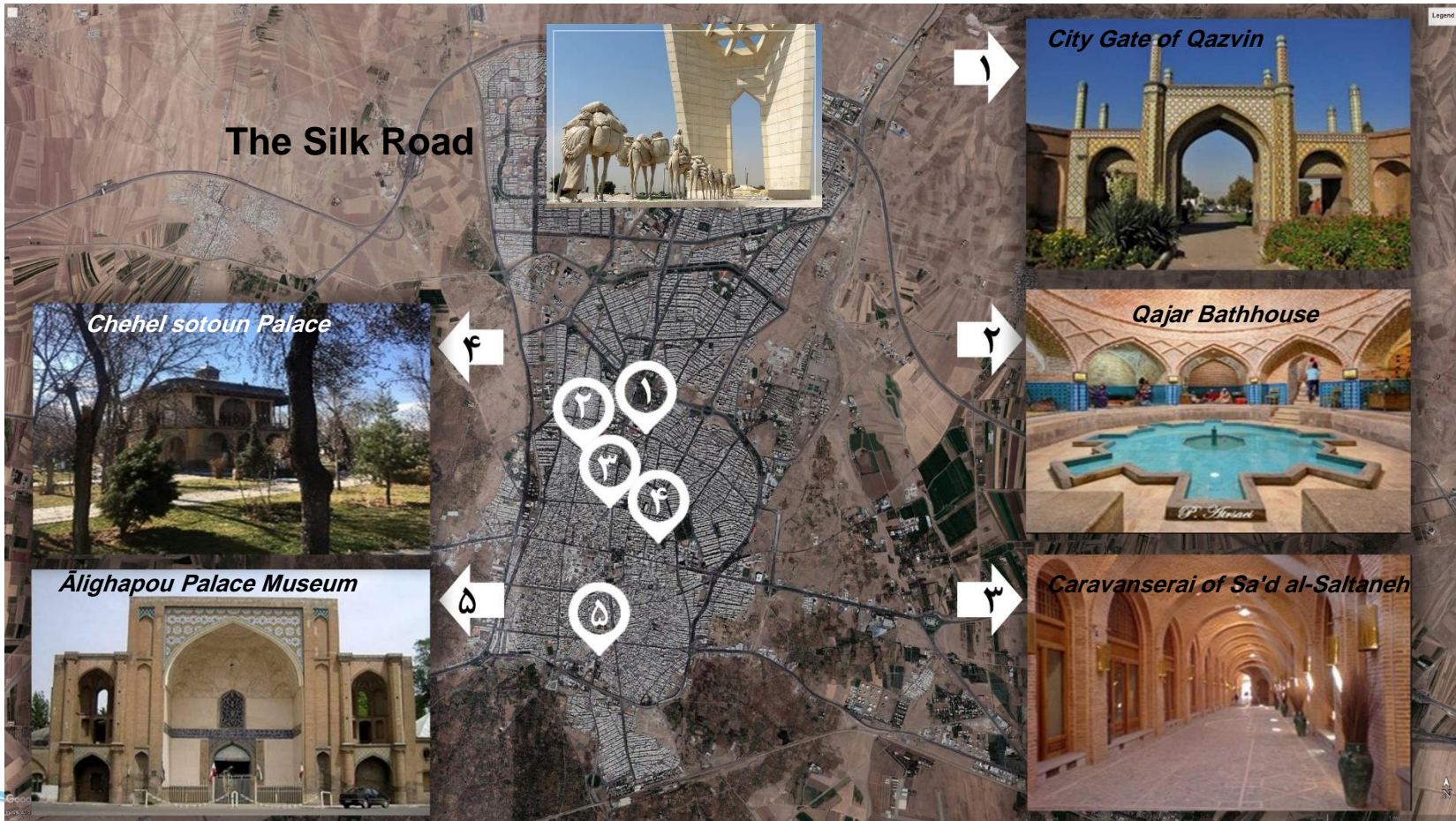


Location of Qazvin station

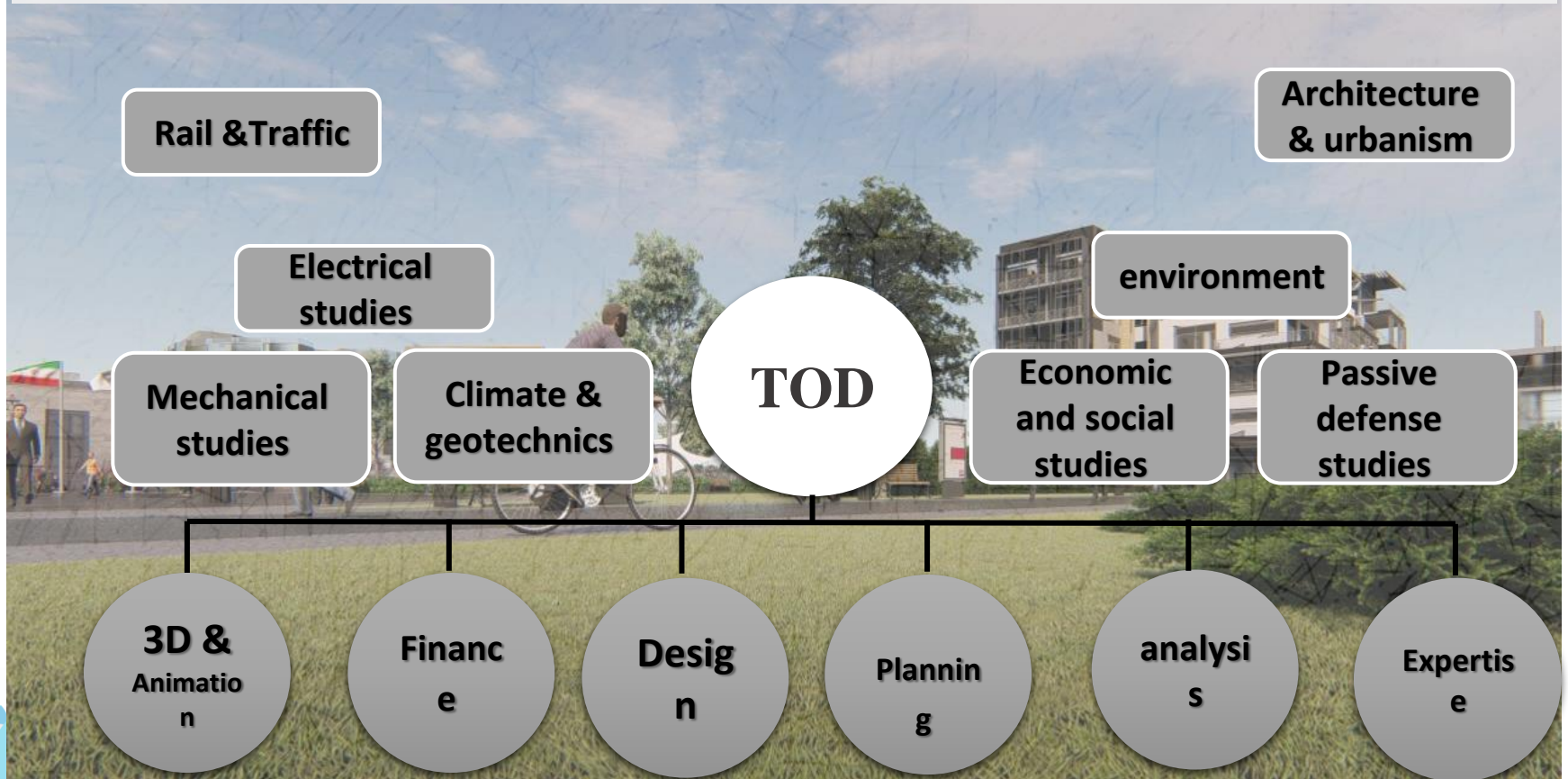
Preparatory works	-Explaining the mission of the project -Data collection & analysis of the current situation
	-Review of existing information & relevant studies -Review of concept of TOD & guidelines -Review of world experience
Surveying works	- Needs assessment of citizens - Current market situation studies -Current traffic situation -Social and cultural studies -Environmental surveying -Utility & Installation in the site
Effective studies	-Rail, Train & suburb traffic -Traffic ,transportation & utilization -Site analysis , access & adjacency -Governmental Rules and Regulation in Design
	-Physical Spatial Planning -Proposing Land use Plan & zoning - Space per capita and density
Schematic plan	-Multimodal Access and Connections -Configuration & Spatial Organization -Preparation & Prioritizing



vista and views of Surrounding fragile fabric



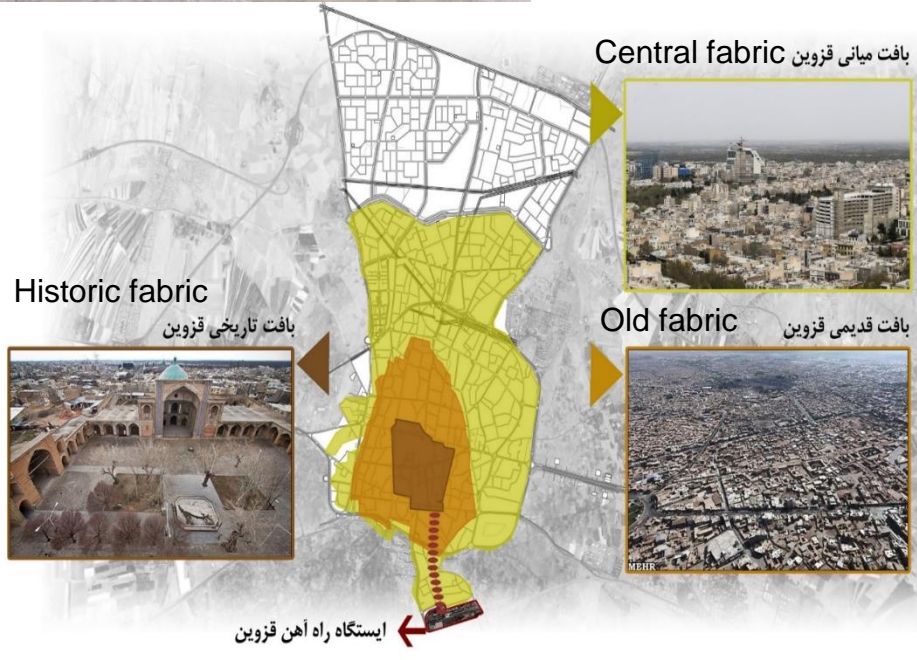
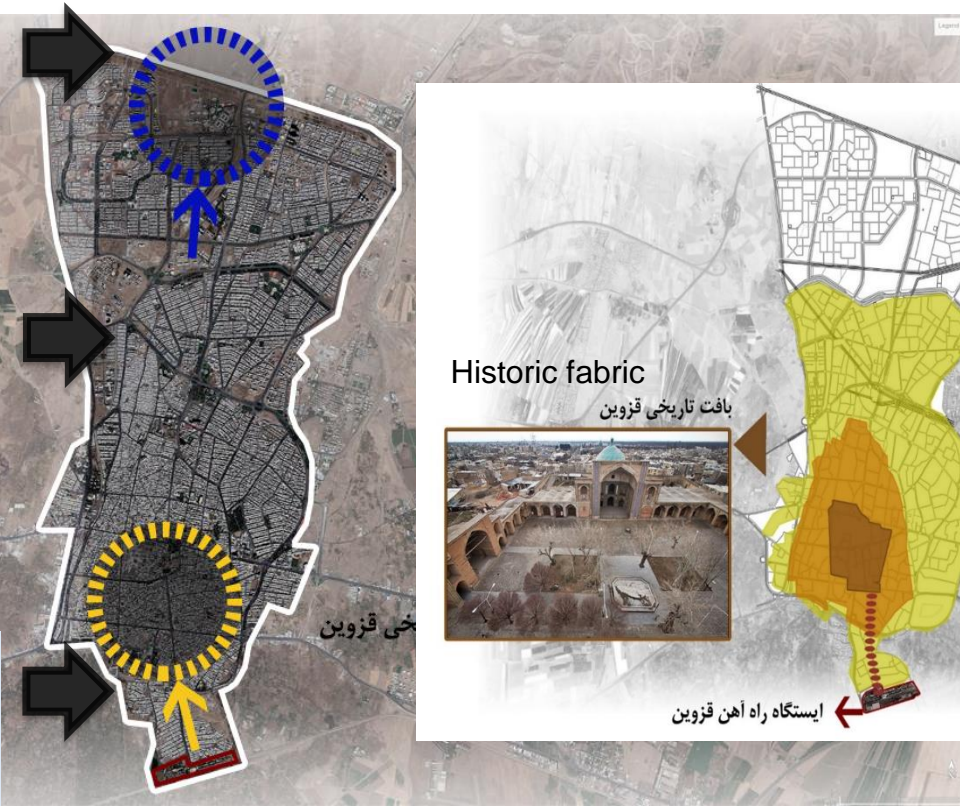
There are 21 disciplines in the 8 main groups contributing in this studies
Technical group are cooperating for developing the project



Target group: Students
Destination: universities in the north part of the city

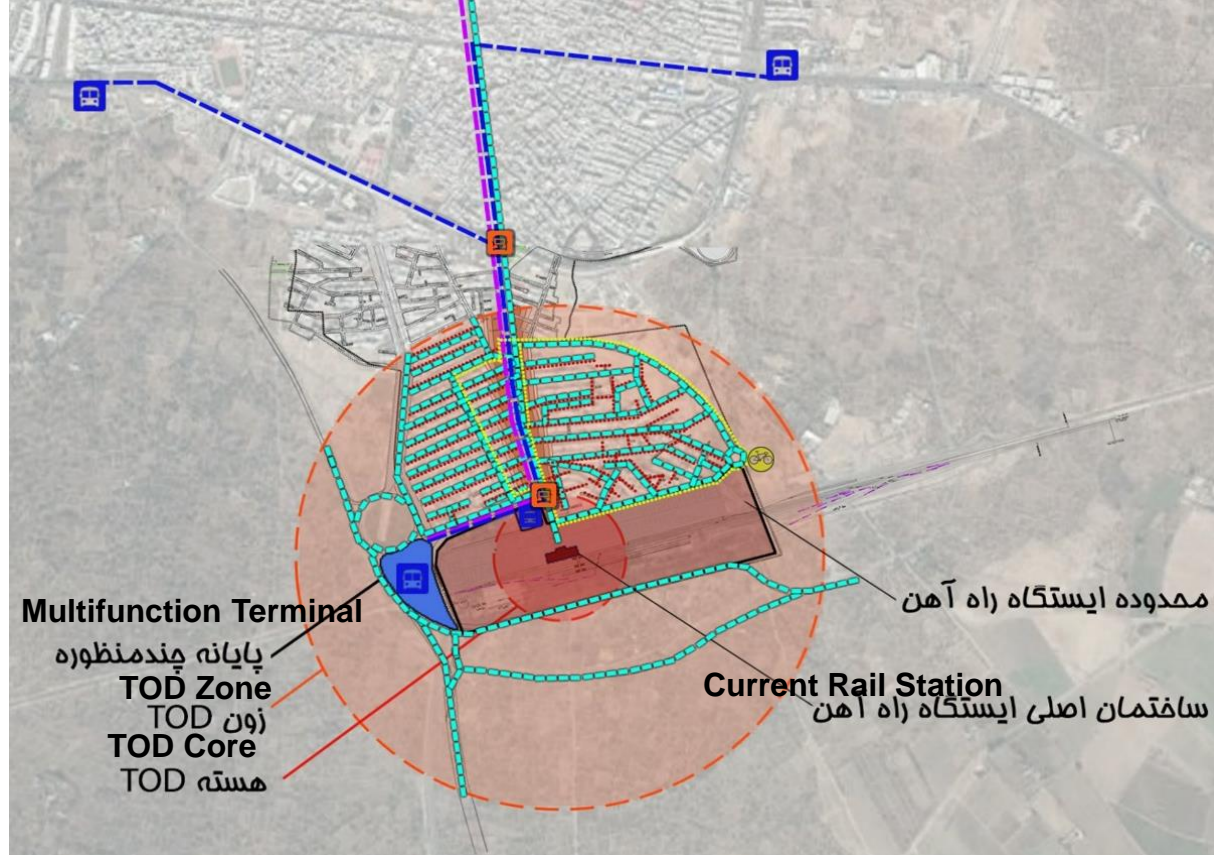
Target group: Citizens
Destination: Recreational zone in the north part of the city

Target group: Tourists
Destination: Historic zone located at 1/5-4 km from station



Target Groups

Gradual development of urban fabric of Qazvin



Conceptual Design for Tod Zone-TOD Core

Intervention area : 20 Hectares
 TOD Zone : 19/5-25 Hectares

4 alternative in the site

Total Area : 203163 m²

Shortage of space per capita in master plan



Winner of RoboCup International Competition 2018 –Canada Islamic Azad University Team



Bringing traditional Qazvin sweets

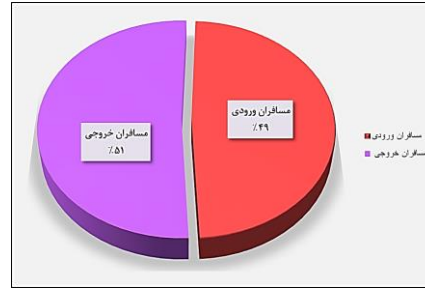


Branding of handmade carpet production in Qazvin

Occupancy (land uses based on city Master Plan)	Shortages in current situation	
	District 1	zone5
Educational	-49432	-5166
Administrative & disciplinary	-24271	20188
Commercial	508976	35861
Sport	-94024	-10766
Medicinal	-54926	871
Cultural & Artistic	-25370	-4970
Green space	-584758	-29513
Religious	123505	-1548
Public Utility	-36983	608
Equipment& Installation	53676	58457
Transportation & storekeeping	178125	177895

station	1392		1393		1394		1395	
Qazvin	Arrival	Departure	Arrival	Departure	Arrival	Departure	Arrival	Departure
	294701	306450	316869	335486	270862	316296	297832	296962

**Departure
51%**

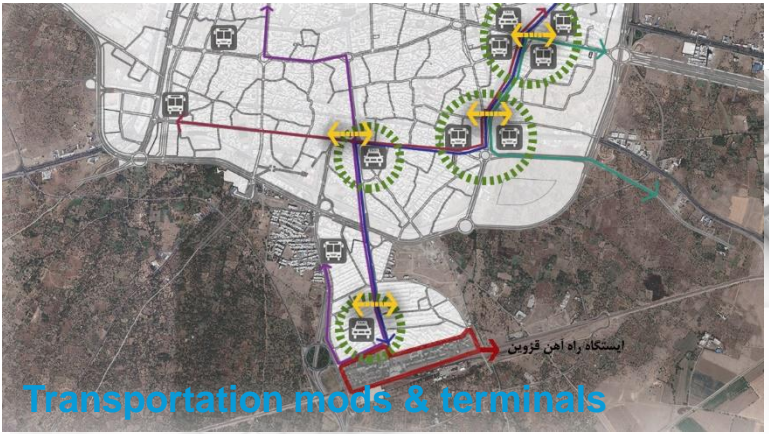


**Arrival
49%**

The average annual passenger growth is : 10.8%.

Station	1415	
Qazvin passenger traffic based on the growth of the railway vision document	Arrival	Departure
	2316149	2309384

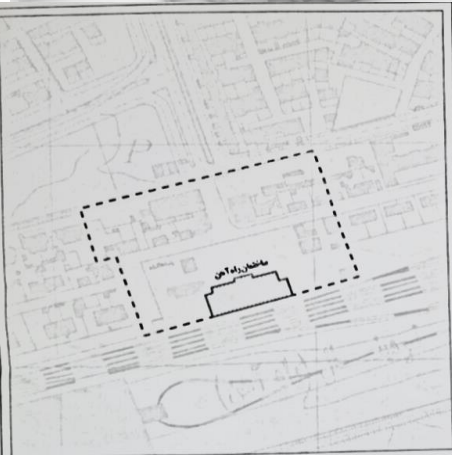
Forecast of Arrival & Departure passengers in Qazvin Station in the year



Transportation mods & terminals



Green spaces surrounding



فصله و ضوابط حریم عمومی : مساحتی راه آهن

در این ضوابط، ضوابط حریم عمومی برای محدوده مساحتی راه آهن قزوین تعیین شده است. این ضوابط شامل موارد زیر است:

- محدوده حریم عمومی: محدوده حریم عمومی شامل مساحتی راه آهن قزوین و مساحتی راه آهن قزوین است.
- محدوده حریم خصوصی: محدوده حریم خصوصی شامل مساحتی راه آهن قزوین و مساحتی راه آهن قزوین است.
- محدوده حریم عمومی: محدوده حریم عمومی شامل مساحتی راه آهن قزوین و مساحتی راه آهن قزوین است.
- محدوده حریم خصوصی: محدوده حریم خصوصی شامل مساحتی راه آهن قزوین و مساحتی راه آهن قزوین است.

نام پروژه	مساحتی راه آهن قزوین
موقعیت	مساحتی راه آهن قزوین
مقیاس	1/1000
تاریخ تصویب	1395
محل تصویب	تهران

Any construction in the shown area is forbidden
 Maximum height for- new building is 7/5 or 2 stores .Either is less

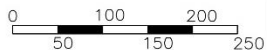


Cultural Heritage Rules and regulation

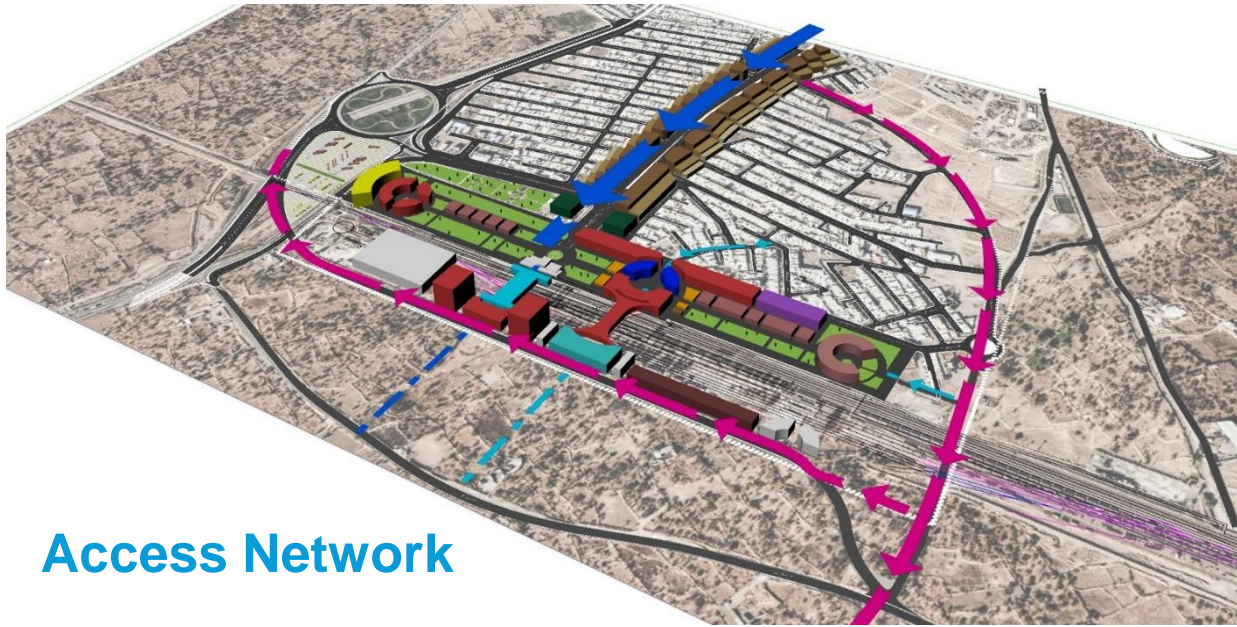


Conceptual plan

Scale: 1/5000



Public store	Services of main axis border (3 Floors)	Panel building	Hotel & Residential	Guilds complex	
Official-Services	Residential of main axis border (2 Floors)	High tech & complex commercial	Green space	Main building of old station	
	Commercial of main axis border (5 Floors)	High tech & complex commercial tower	Taxi & Bus station	Main building of new station	
	Commercial industry bourse	Congress center	Railroad staff houses	Services	



Access Network

Integrated access network
Improvement the fragile fabric
Mass in the surrounding of main axes
Interaction of tradition an modernity

Mixed use and dense residential
Well accessible and well connected
Shift to mobility and focus on public transport
A human oriented city

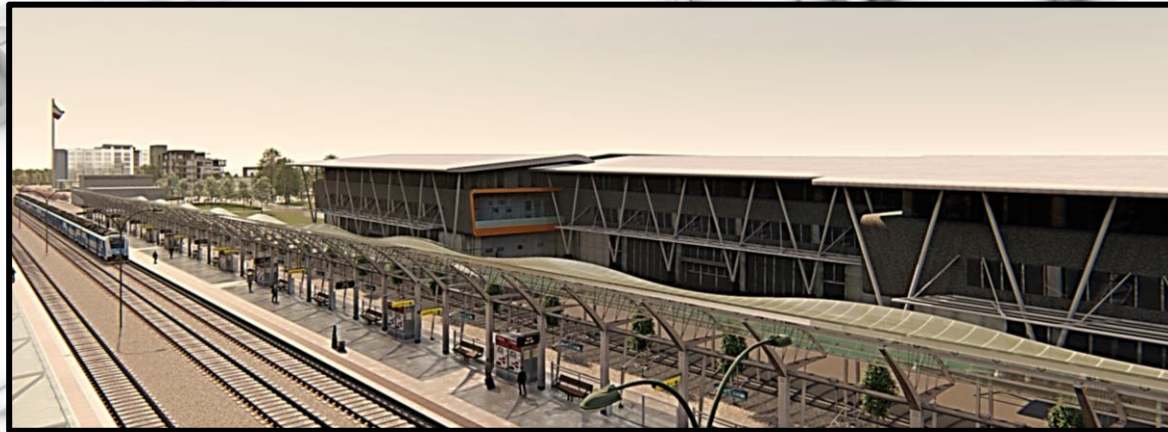
1. New station
2. 4-star hotel - business class
3. Residential buildings
4. High-tech Cinema and Complex
5. Complex commercial tower
6. High Tech- Clean Industry Stocks (Mobile, IT, High Tech)
7. Services (Book Garden, Theme park, Concert Hall)
8. Green space
9. Administrative Services
10. Public Storage
11. Corporate Complex
(Traditional Bakery Guilds - Handmade Carpets and Garments)
12. Bicycle road and walk street
13. Conference hall and multifunction area
14. Subway crossing - Adjacent to the interface between the new building and downstream land uses
15. Plaza with landscape for southern entrance



Old Rail Station

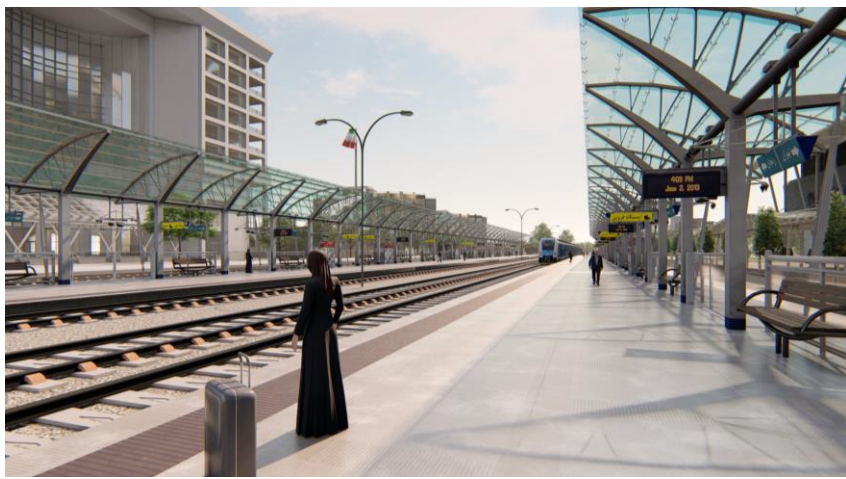


New Rail Station









Thank you
for your kind attention