Underground Urban Spaces: the best solution for changing heritage railway stations to smart stations- case study: Tehran railway station

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2a. Smart design
Until 50 years ago, traveling by train was the definitive way to travel - in their heyday, railways represented the freedom and glamour of what is now fondly remembered as the Golden Age. That era has now sadly passed, and though train travel is enjoying a renaissance, many train stations have fallen into disrepair. But where some people see ruin, others see opportunity. And the romance of the railway is far from forgotten. Around the world, arches, tunnels and waiting rooms have struck a chord with creatives who see these urban spaces as perfect spots for upcycling and adaptive reuse.
Underground development is an important tool in developing and reshaping urban areas to meet the challenges of the future.

The use of underground space can help cities meet increased demands while remaining compact, or find the space needed to include new functions in an existing city landscape.
UUS can solve or help improve multiple of the problems that urban developments face:

- Traffic congestion
- Environmental problems
- Lack of green space
- Need for protection against disasters
- Lack of infrastructure for food, energy, water, and sanitation

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Look at some of Europe's finest train stations, and see how they've changed over the years using UUS systems:

**St Pancras International, UK**

**Saint Lazzare, France**

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Tehran Railway Station, situated south of the central Tehran is a classical example of a mid-twentieth century urban rail station composition; with a mail central mass and two symmetrical wings overlooking a station square and aligning on one of the cities main historic arteries.
How can we implement underground urban space in Tehran Station?

WHERE ARE WE???
1. Connecting Metro to Railway Station

What have we done so far?

Underground Urban Spaces: the best solution for changing heritage railway stations to smart stations
2. UUS Conceptual Design

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3. Commercial Studies and Investment Projects

How can we implement underground urban space in Tehran Station?

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How can we implement underground urban space in Tehran Station?

1. Plan of potential underground development projects
2. Assessment of transport-related movement
3. Assessment of overall projected pedestrian flow levels
4. Commercial use potential
5. Impact on the existing network and commercial space system
6. Space and facility standards for the project
7. Link requirements
8. Integrated management plan
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THANK YOU
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