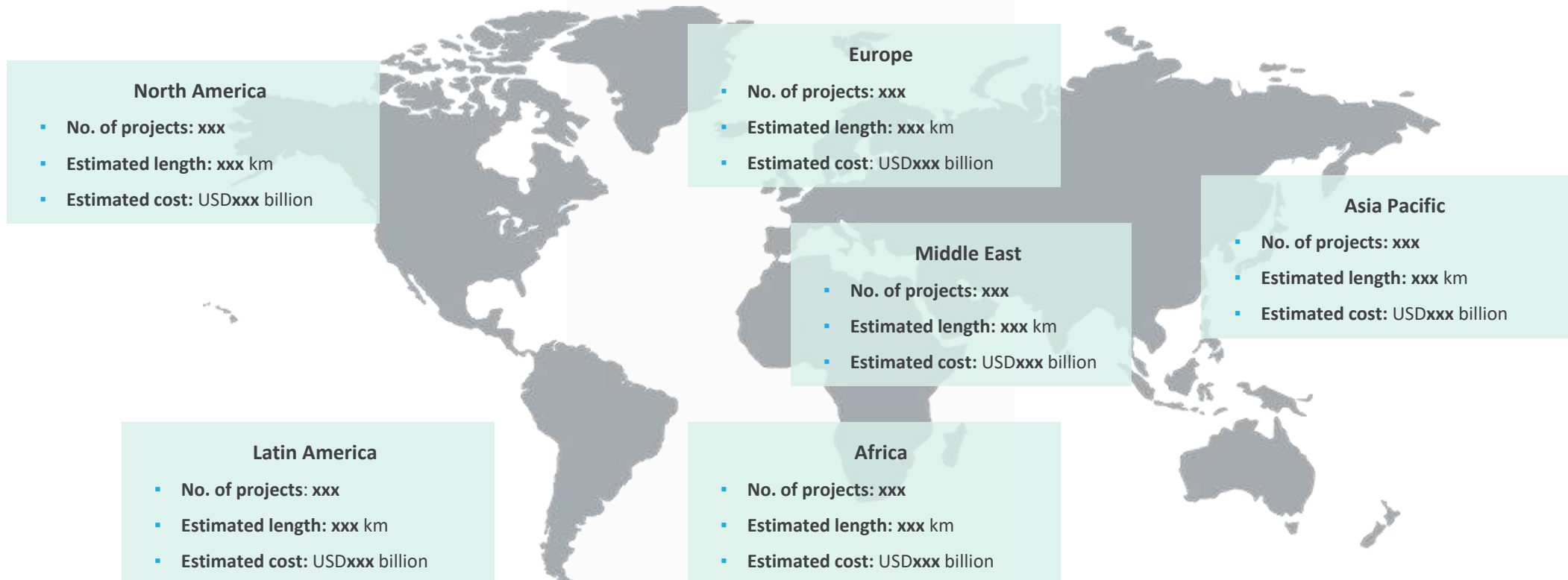


Overview (1/2)

- The report covers **1,000** upcoming urban rail projects in six regions, namely, North America, Latin America, Asia Pacific, Europe, Middle East and Africa. These projects together cover a network of over **xxx** km and require an estimated investment of more than USD**xxx** billion.
- **xxx region** has the maximum number of projects coming up. Of the 1,000 upcoming projects, **xxx** projects, which will together span over **xxx** km, will be developed in the region.

Region-wise analysis of projects



Overview (2/2)

- Of the upcoming length, the majority is **under planning** (xxx km in xxx projects), followed by **under construction** (xxx km in xxx projects).
- Of the **1,000** projects covered in the report, **xxx** projects are partially or completely elevated, covering a network of **xxx** km; **xxx** projects are partially or completely underground, covering a network of **xxx** km; and **xxx** projects are partially or completely at grade, covering a network of **xxx** km.
- Of the **1,000** projects, the completion dates for **xxx** projects are available. A total of **xxx** projects, spanning about **xxx** km, are expected to be developed and modernised by 2026; **xxx** projects spanning around **xxx** km are planned to be operationalised and modernised during 2027-2031; and **xxx** projects spanning around **xxx** km will be developed and modernised beyond 2031.
- Across regions, contactless smartcards and paper tickets, magnetic-stripe tickets, tokens and cash are most widely accepted as modes of payment. Majority of the developers plan to integrate the fare system with other modes of public transport in the city.
- All of this planned activity in the urban rail segment spells opportunity for contractors, consultants, rolling stock and technology providers, vendors, etc.

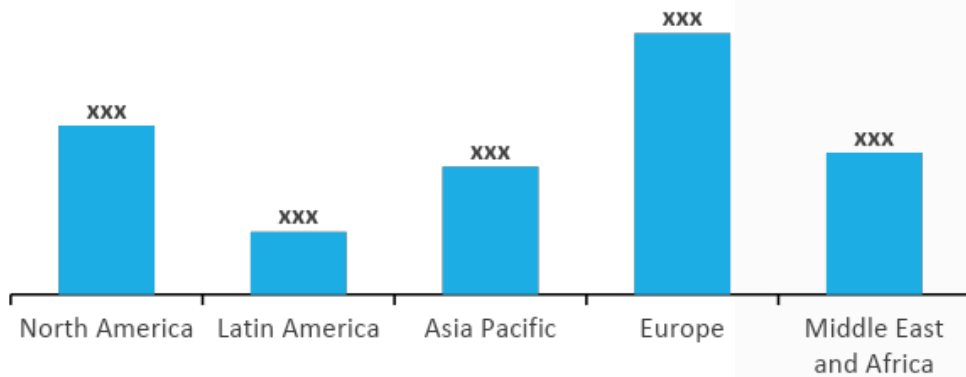
Timeline-wise analysis of projects

Timeline	No. of projects	Length (km)
By 2026	xxx	xxx
Between 2027 and 2031	xxx	xxx
Beyond 2031	xxx	xxx

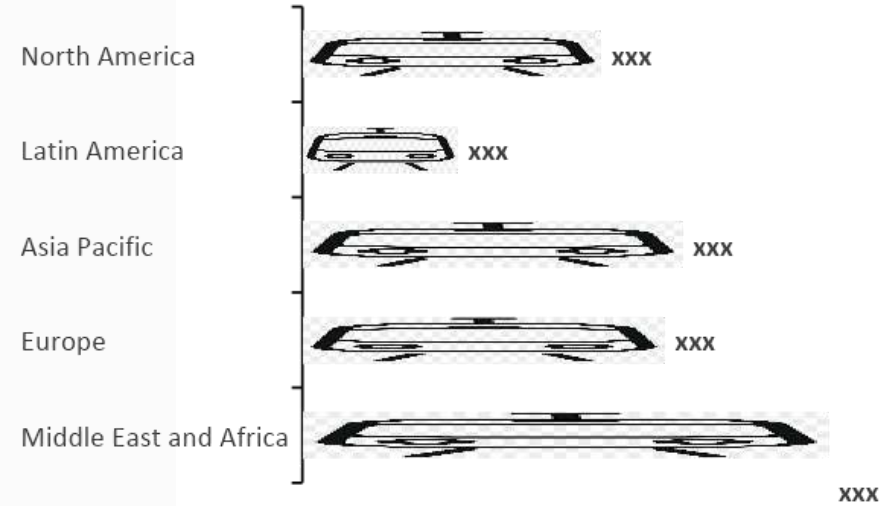
Introduction

- xxx region has the maximum number of projects coming up. Of the 1,000 upcoming urban rail projects, xxx projects are being executed in Europe. These projects will collectively span over xxx km.
- xxx region presents the second biggest opportunity in terms of number of projects. The report covers the xxx upcoming urban rail projects in the region. These projects will collectively span over xxx km.
- xxx region, although a relatively recent entrant into the rail segment, presents the largest opportunity in terms of network expansion. xxx projects spanning over xxx km will be developed in the region.

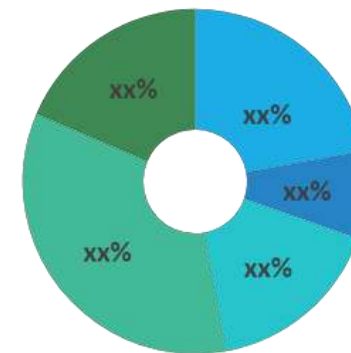
Distribution of projects by region



Distribution of length of projects by region

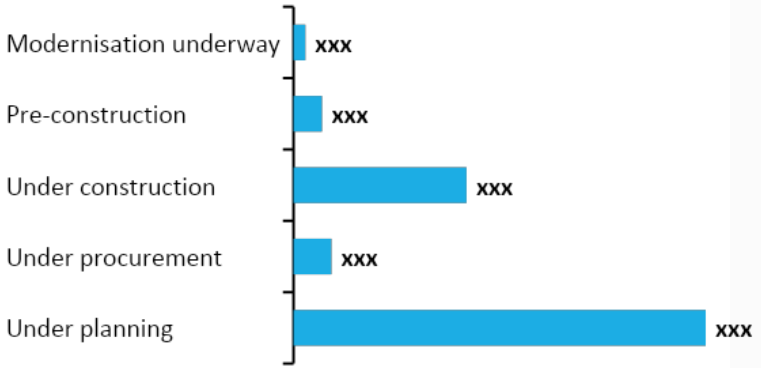


Share of projects by region



Introduction

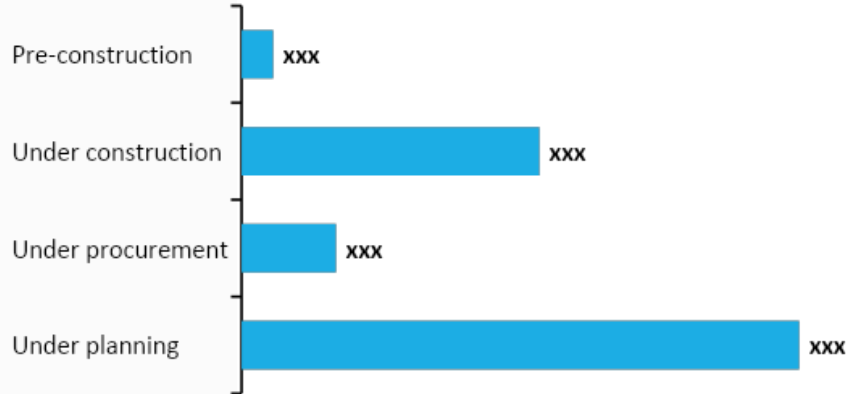
Distribution of number of projects by status



Of the 1,000 projects, xxx are in planning phase, xxx are under procurement, xxx are under construction, xxx are at the pre-construction stage and xxx are undergoing modernisation. The majority of projects are in the xxx phase, representing significant investment opportunities for contractors/service providers across the urban rail transit value chain.

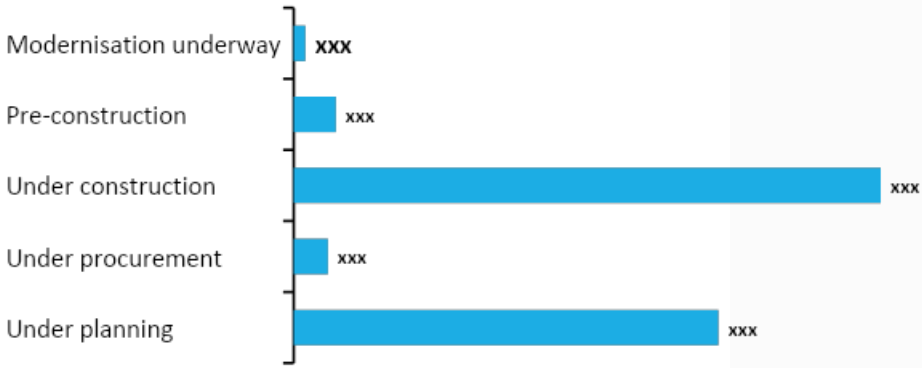
The 1,000 upcoming rail projects collectively cover more than xxx km. The projects under planning together span more than xxx km, which accounts for xx% of the total length.

Distribution of length of projects by status (km)



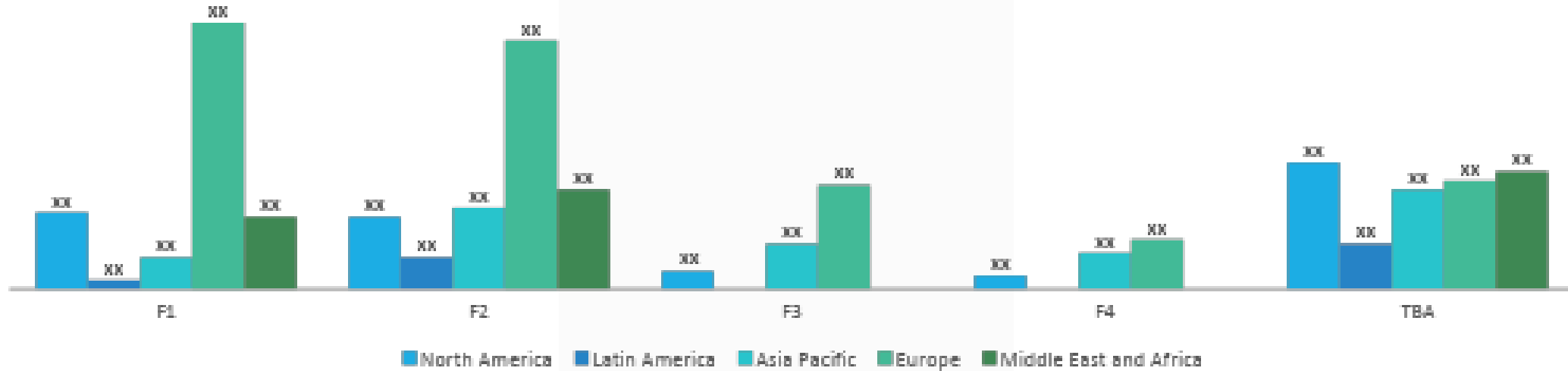
These 1,000 upcoming urban rail projects involve an investment of USDxxx billion. Projects under construction represent xx% of the total investment.

Distribution of cost of projects by status (USD billion)



Analysis of fare systems (2/2)

Level of fare collection deployment planned by region



Note: The fare systems have been classified into four categories: paper tickets, magnetic-stripe tickets, tokens and cash as **category F1**; smartcards (contactless/contact-based) and rechargeable magnetic-stripe cards as **category F2**; mobile ticketing as **category F3**; and bank cards as **category F4**.

Across regions, contactless smartcards and paper tickets, magnetic-stripe tickets, tokens and cash are most widely accepted as modes of payment. Most upcoming systems also have plans for the same.

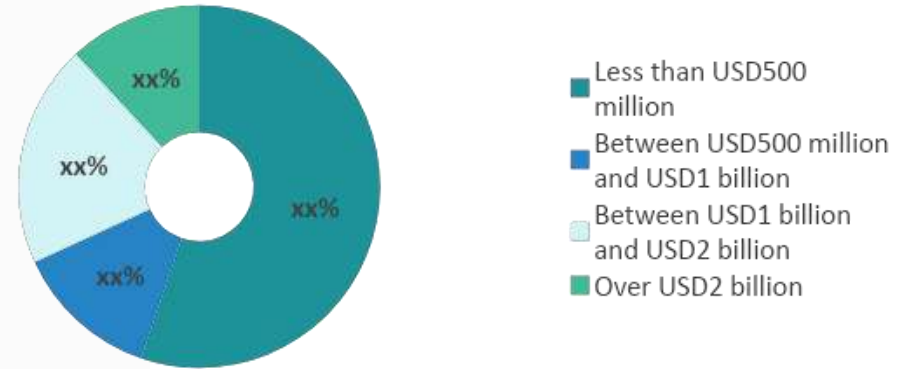
xxx region has the largest share of systems to be deployed across all fare categories.

Advanced payment modes such as bank cards are gaining prominence; however, their current share is low.

Introduction

- The report covers 1,000 projects. Of these, **xxx** projects spanning **xxx** km, will require investment of less than USD500 million each.
- A total of **xxx** projects, spanning **xxx** km, will require investment ranging between USD500 million and USD1 billion each.
- Further, **xxx** projects, spanning **xxx** km, will require investment ranging between USD1 billion and USD2 billion each.
- Finally, **xxx** projects, spanning **xxx** km, will require investment of more than USD2 billion each.

Share of no. of projects by cost*



Projects with highest investment requirement by region

Region	Project	Cost (USD billion)	Length (km)	Expected year of completion
North America	xxx	xxx	xxx	xxx
Latin America	xxx	xxx	xxx	xxx
Asia Pacific	xxx	xxx	xxx	xxx
Europe	xxx	xxx	xxx	xxx
Middle East & Africa	xxx	xxx	xxx	xxx

Note: *The planned investments for 79 projects are either not available or yet to be announced.

Summary

Significant investment is planned to be undertaken in **construction; fare systems; rolling stock and signalling, train control, and telecommunications (STT) systems.**



Construction

New build projects: **USDxxx billion to USDxxx billion**

Extensions and modernisation: **USDxxx billion to USDxxx billion**



Fare system

Investment in fare systems will be **USDxxx billion**



(STT) systems

Investment in STT systems will be **USDxxx billion**



Rolling stock

Investment in rolling stock will be between **USDxxx billion** and **USDxxx billion**

1.9.2 Expected investment in new build projects

- An estimated **USDxxx billion** is planned to be invested globally in the development of new lines or systems. Majority of these investments are in the Middle East and Africa, followed by North America.
- Depending upon the type of project, the construction cost as a percentage of the total project cost (TPC) ranges between 40%–55%.
- An estimated **USDxxx billion to USDxxx billion** is planned to be invested in the construction of new lines and systems.

