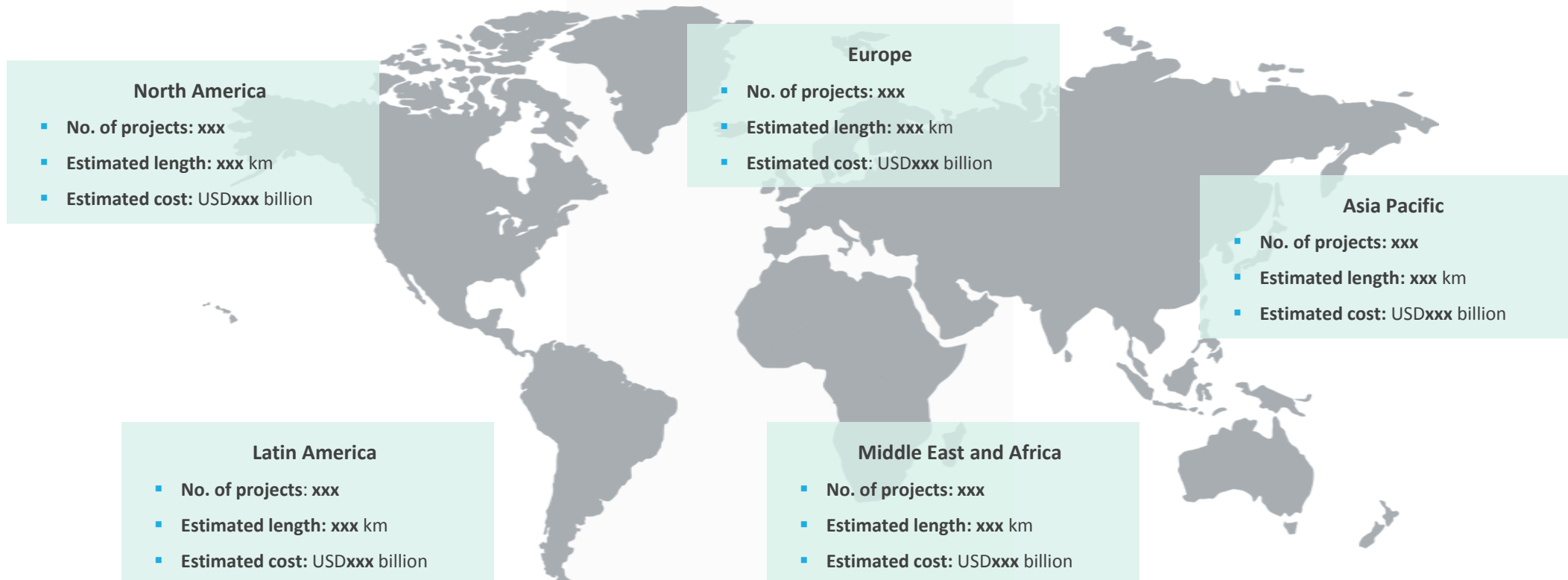


Overview (1/2)

- The report covers **280** upcoming light rail projects (light rail, tram, streetcar, tram-train) in five regions, namely, North America, Latin America, Asia Pacific, Europe, and Middle East and Africa. These projects together cover a network of over **xxx** km and require an estimated investment of more than **USDxxx** billion.
- **Europe** has the maximum number of projects coming up. Of the 280 upcoming projects, **xxx** projects, which will together span over **xxx** km, will be developed in Europe.

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 **280** 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 **280** 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 2025; **xxx** projects spanning around **xxx** km are planned to be operationalised and modernised during 2026-2030; and **xxx** projects spanning around **xxx** km will be developed and modernised beyond 2030.
- 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 light rail segment spells opportunity for contractors, consultants, rolling stock and technology providers, vendors, etc.

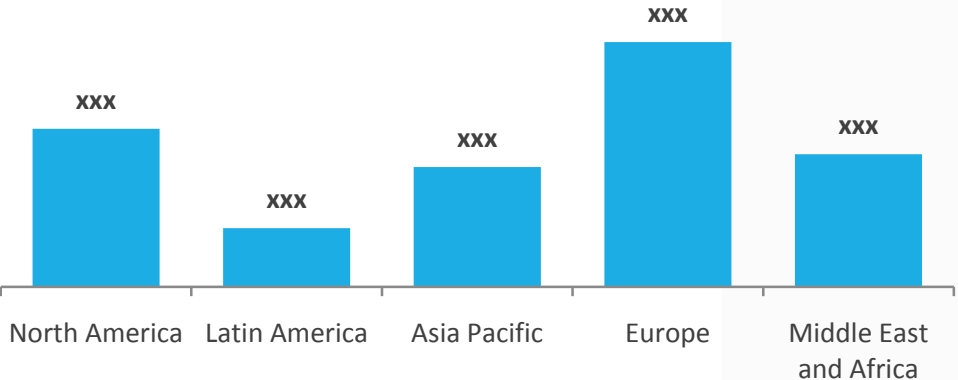
Timeline-wise analysis of projects

Timeline	No. of projects	Length (km)
By 2025	xxx	xxx
Between 2026 and 2030	xxx	xxx
Beyond 2030	xxx	xxx

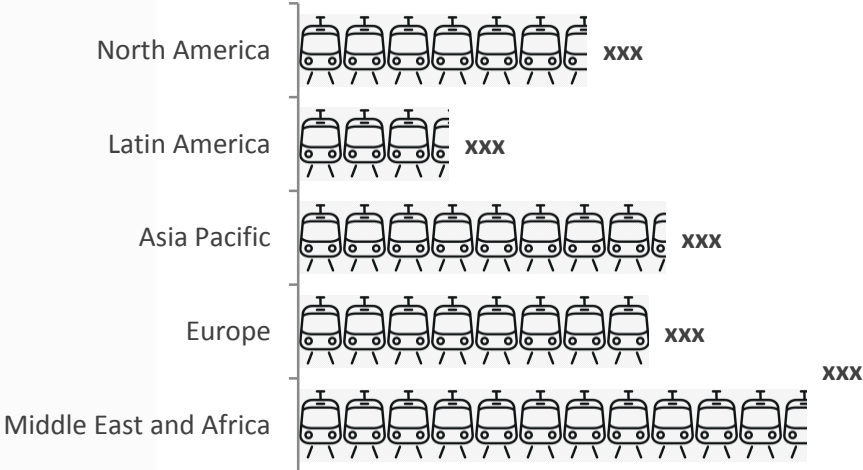
1.2.1 Introduction

- Europe has the maximum number of projects coming up. Of the 280 upcoming light rail projects, **xxx** projects are being executed in Europe. These projects will collectively span over **xxx** km.
- North America presents the second biggest opportunity in terms of number of projects. The report covers the **xxx** upcoming light rail projects in the region. These projects will collectively span over **xxx** km.
- Middle East and Africa, 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.

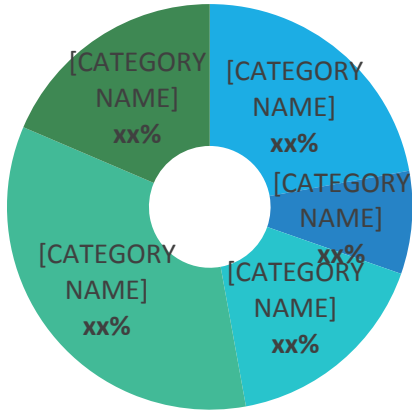
Distribution of projects by region



Distribution of length of projects by region

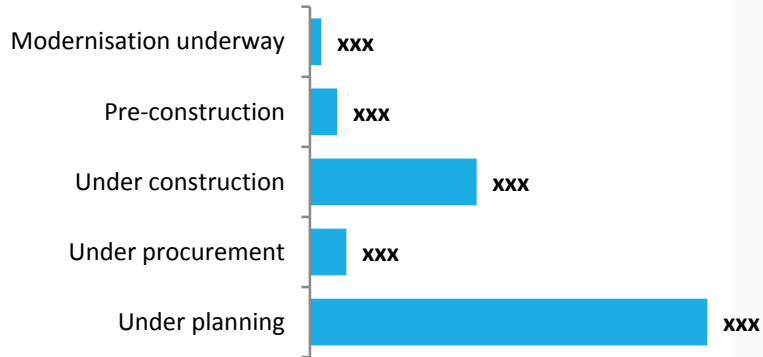


Share of projects by region



1.3.1 Introduction

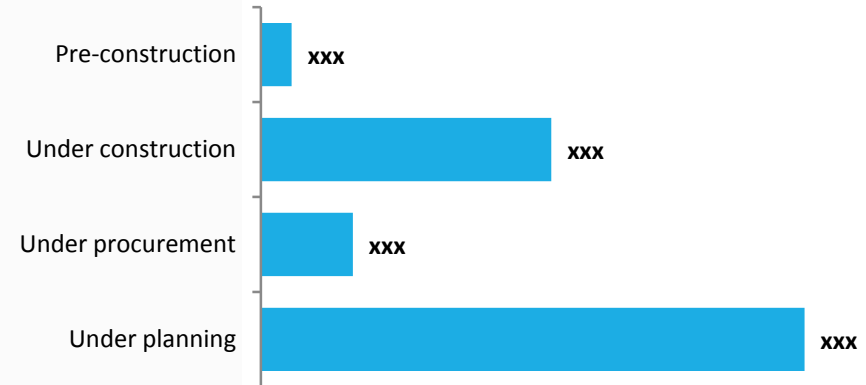
Distribution of number of projects by status



Of the 280 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 planning phase, representing significant investment opportunities for contractors/service providers across the urban rail transit value chain.

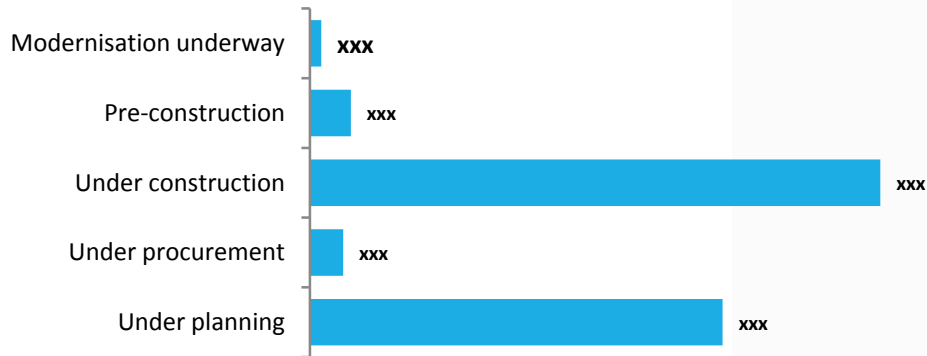
The 280 upcoming light rail projects collectively cover more than xxx km. The projects under planning together span more than xxx km, which accounts for xx% of the total length.

Distribution of length of projects by status (km)



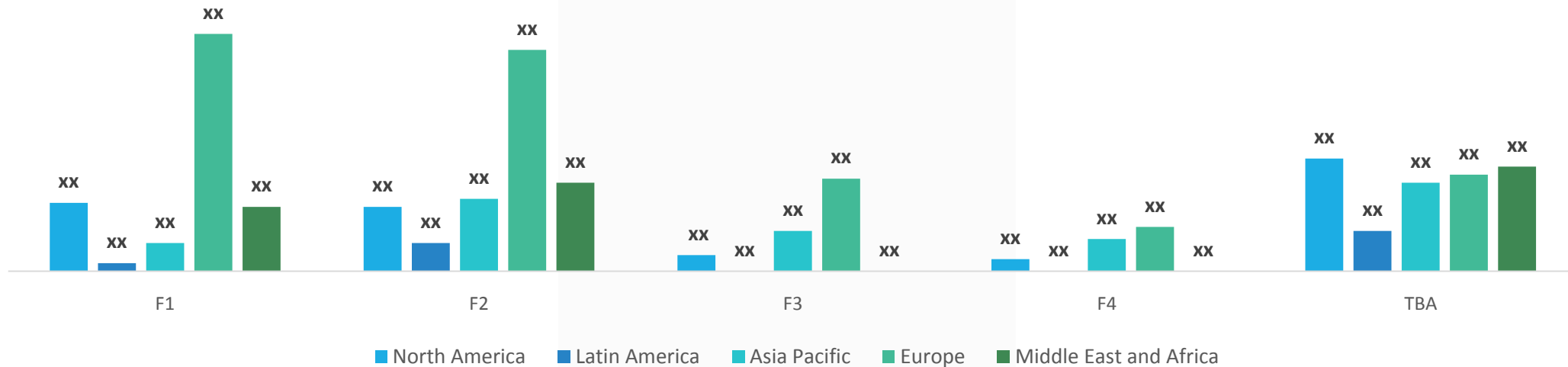
These 280 upcoming light rail projects involve an investment of USDxxx billion. Projects under construction represent xx% of the total investment.

Distribution of cost of projects by status (USD billion)



1.4.1 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.

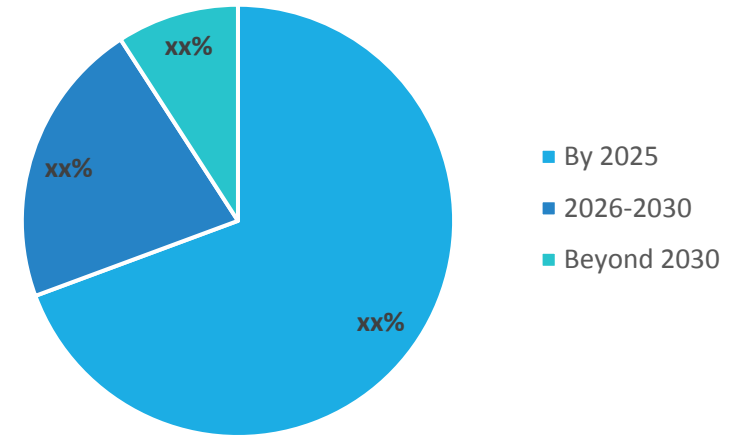
Europe has the largest share of systems to be deployed across all fare categories.

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

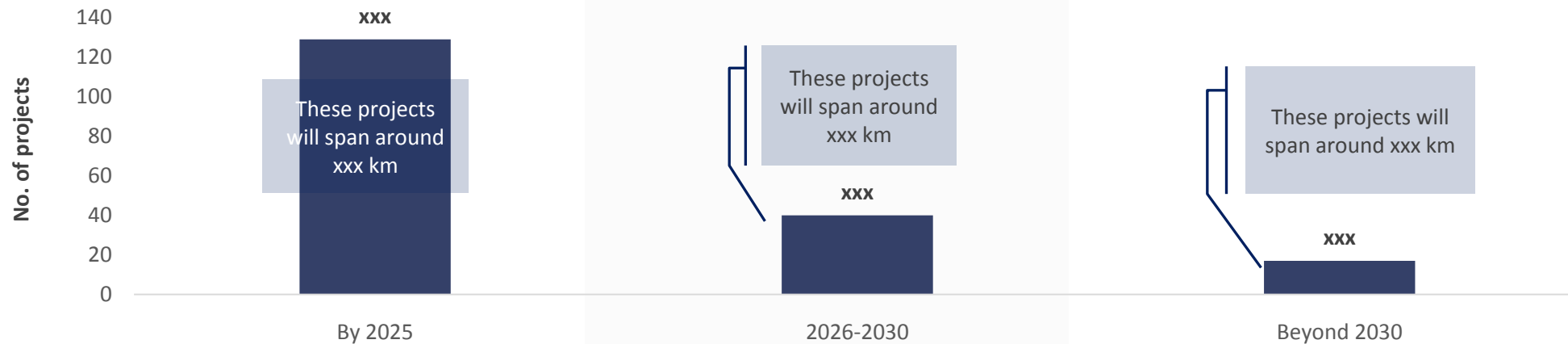
1.6.1 Introduction

- A total of **xxx** projects, spanning about **xxx** km, are expected to be developed and modernised by 2025; **xxx** projects spanning around **xxx** km are planned to be operationalised and modernised during 2026-2030; and **xxx** projects spanning around **xxx** km will be developed and modernised beyond 2030.
- The report covers **280** projects, of which the completion dates for **xxx** projects are available. Of these, **xx%** of the projects are expected to be completed by 2025; **xx%** are expected to be completed during 2026-2030, and **xx%** are to be completed after 2030.

Distribution of projects by expected date of completion*



Projects by expected date of completion

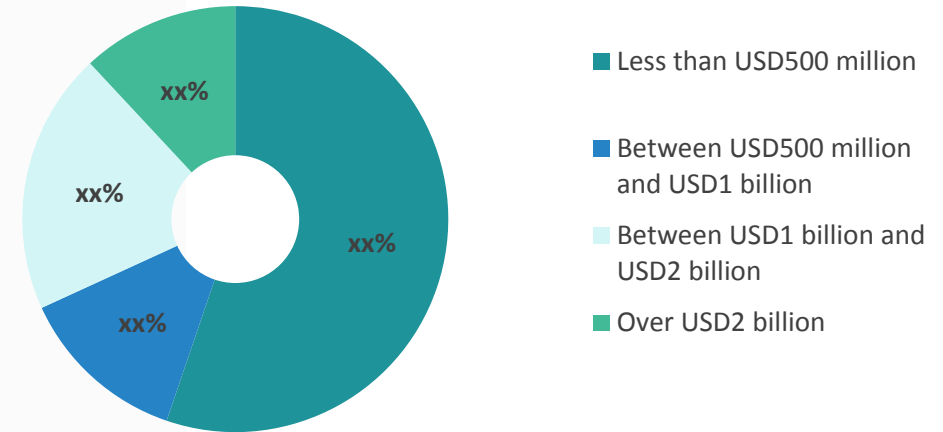


Note: Out of 280 projects, completion dates for 91 projects are to be announced and 3 projects are not available.

1.7.1 Introduction

- The report covers 280 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*



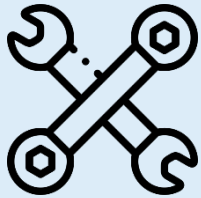
Projects with highest investment requirement by region

Region	Project	Cost (USD billion)	Length (km)	Expected year of completion
North America	Calgary C-Train Green Line, Canada	xxx	xxx	xxx
Latin America	São Paulo Metro Line 2 extension, Brazil	xxx	xxx	xxx
Asia Pacific	Kuala Lumpur LRT-3, Malaysia	xxx	xxx	xxx
Europe	Copenhagen Ring 3 Light Rail, Denmark	xxx	xxx	xxx
Middle East & Africa	Tel Aviv Light Rail Green Line, Israel	xxx	xxx	xxx

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

1.9.1 Summary

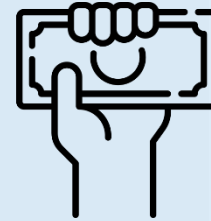
Significant investment is planned to be undertaken in **construction; fare systems; rolling stock and signalling, train control, and telecommunications (STT) systems.**



Construction

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

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



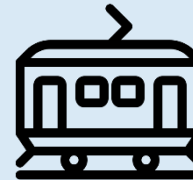
Fare system

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**

