1.1.4 Market Size by Sub-segments

AFC Market 2023
USDxx billion

Front-end (hardware) market
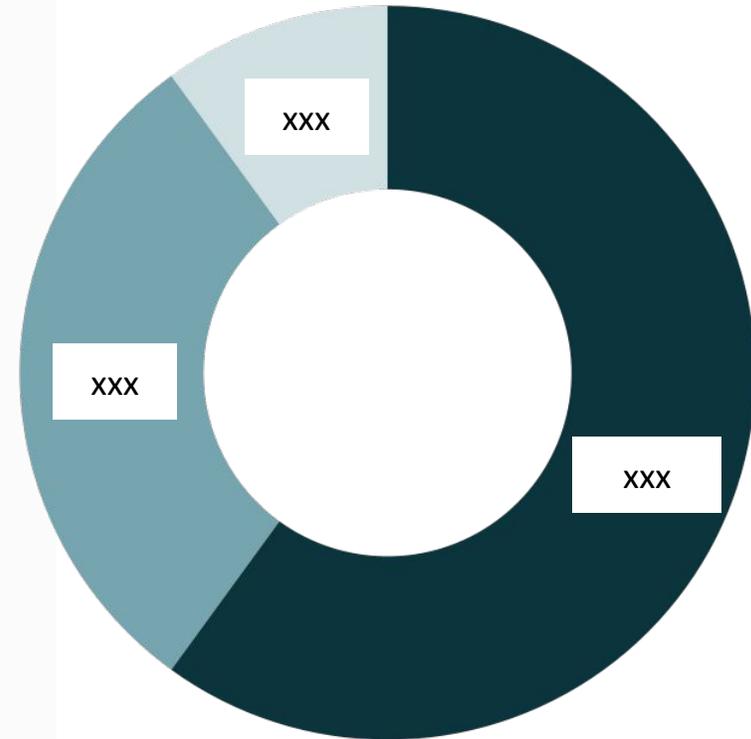**USDxx billion**

Back-end (software) market
USDxx million

Service & maintenance market
USDxx million

Market Size for the year 2023 by Sub-Segments (USD million)

xxx

xxx

xxx

● Front-end (Hardware)   ● Back-end (Software)   ● Service and maintenance

1.1.5 Account-based ticketing (ABT): size and key case studies

Of the cities covered in the report, account based ticketing (ABT) is currently deployed in **xx** cities. In the future, **xx** cities plan to deploy ABT solution on public transport. Of the planned deployments, around **xx** cities will be deploying the solution for the first time.
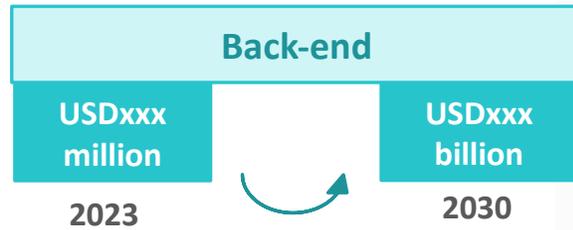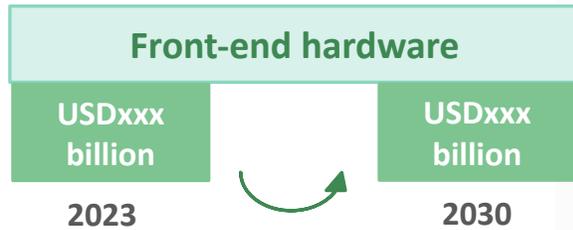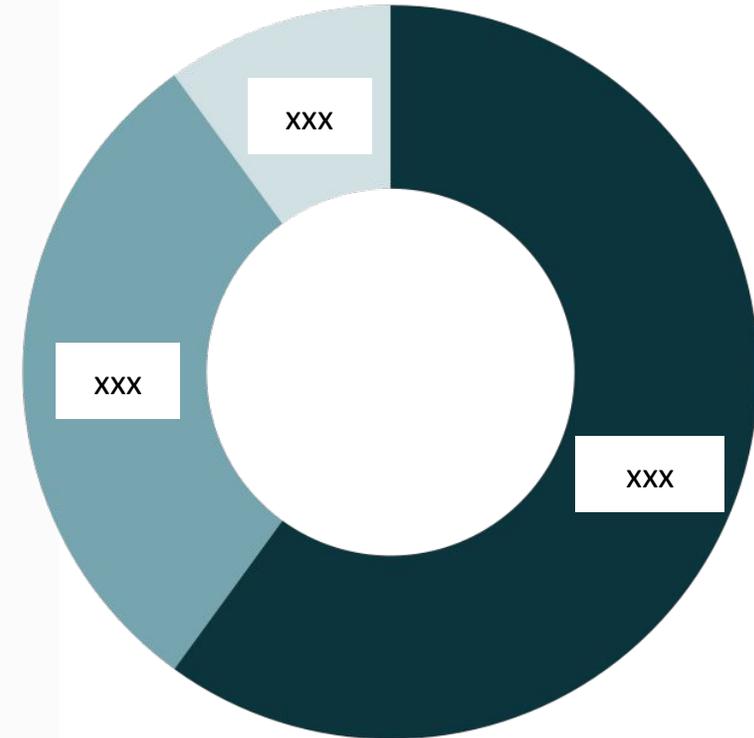
Jakarta, Indonesia

xxx

xxx

xxx

1.5.2 Growth in AFC Market by 2030

AFC Market Size

2023
USDxxx
billion

2030
USDxxx
billion

Front-end hardware

| USDxxx billion | USDxxx billion |
| 2023 | 2030 |

Back-end

| USDxxx million | USDxxx billion |
| 2023 | 2030 |

Service & maintenance

| USDxxx million | USDxxx million |
| 2023 | 2030 |

Market Size for the year 2030 by Sub-Segments (USD million)

xxx

xxx

xxx

● Front-end (Hardware)   ● Back-end (Software)   ● Service and maintenance

1.5.4 Expected network addition (by 2030)

Upcoming rail projects

Over 78 rail projects planned

The market for deployment of advanced fare media is driven by upcoming rail projects. There are 78 railway projects that are announced to be completed by 2030. These comprise metro, light rail, high speed rail, suburban rail, commuter rail, inter country and light metro rail projects. The projects will collectively span over 6,214 km and cover more than 948 stations. The total planned investment is over USD167.97 billion. Vietnam accounts for the maximum expected rail network addition at 1,964 km, which entail an investment of over USD37.72 billion.
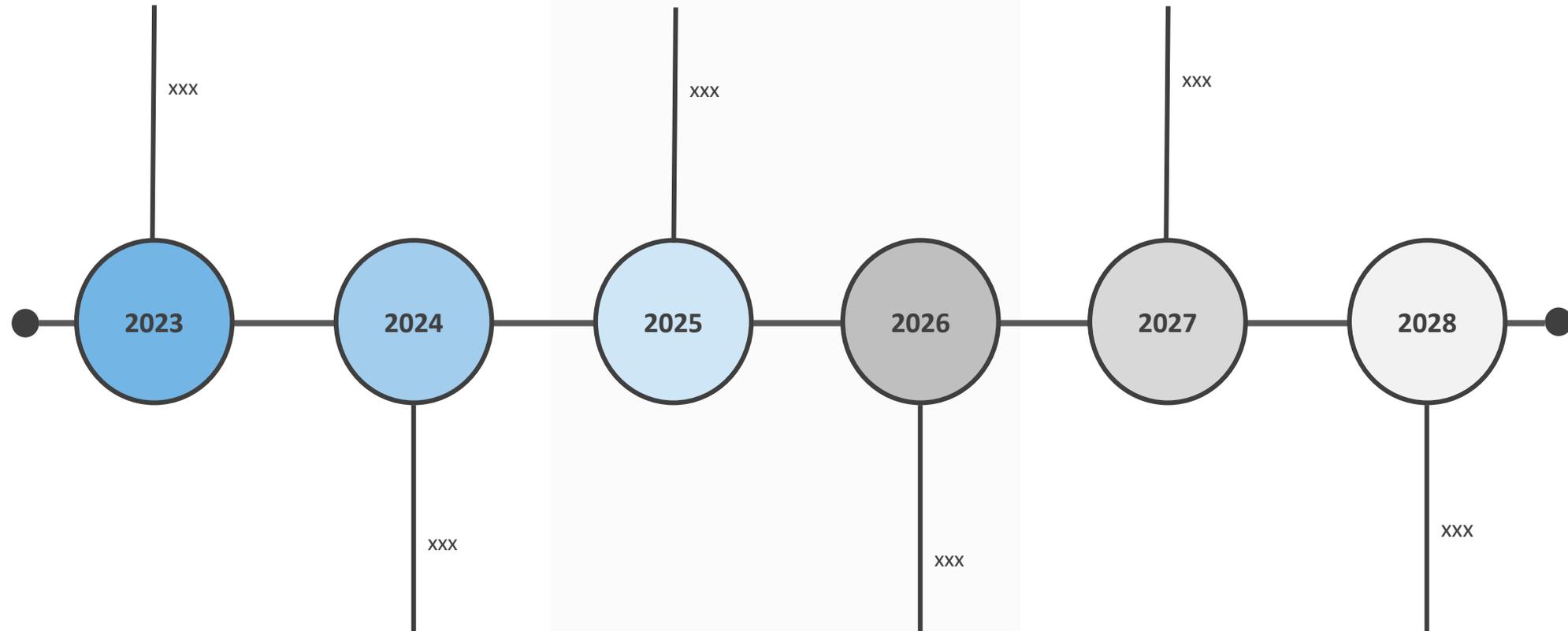
Country-wise share of planned railway network addition
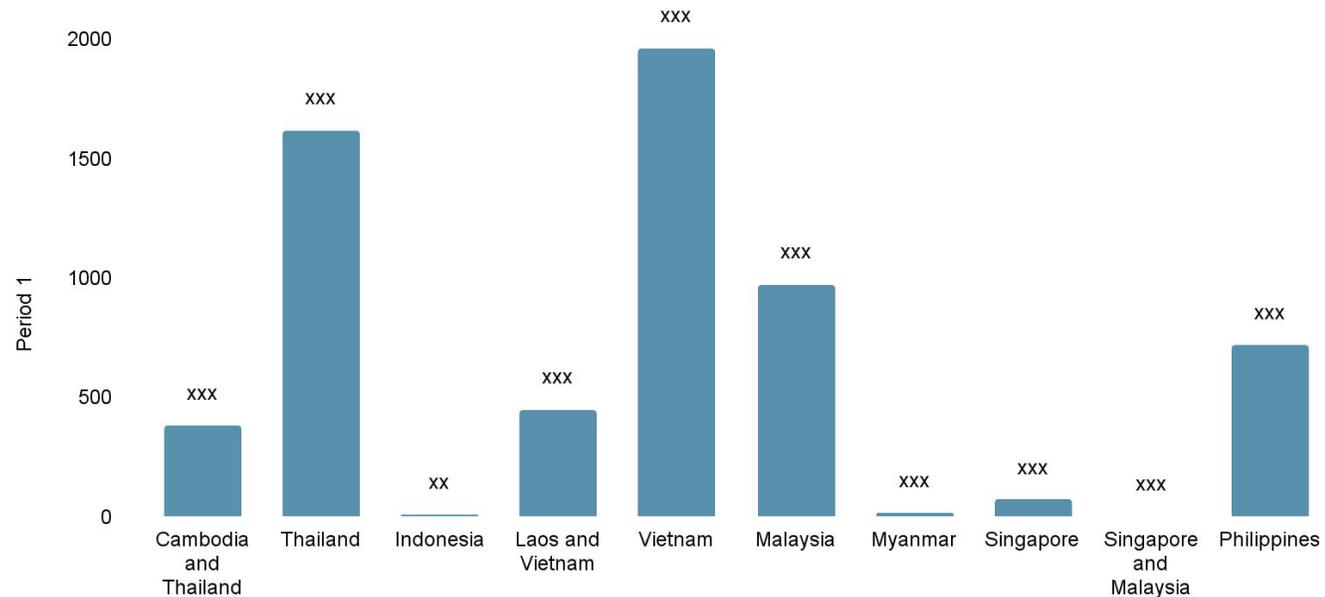
Note: The regions also include several projects where the details are to be announced.

1.5.6 Year-wise deployment of advanced fare media (by 2028)

Year wise deployment of advanced fare media in ASEAN cities

xxx

xxx

xxx

2023 **2024** **2025** **2026** **2027** **2028**

xxx

xxx

xxx

Note: Some cities has been repeated since different systems in those cities have new fare deployments in different years.

2.1.1 Overview of fare media

Of the xx cities covered in this report, contactless smartcards have been deployed in almost xx% cities making it the most commonly used fare media for public transit systems. Contactless smartcards are followed by paper tickets, magnetic-stripe tickets and contact-based smartcards, which have been deployed in xx% cities.

Cities in the southeast asian region have made significant strides in testing and deploying bank cards and mobile ticketing for fare payment. Bank cards have been deployed in xx% cities, with plans announced to deploy the fare media on existing and upcoming networks in xx% cities. Further, mobile ticketing has been deployed in xx% cities, with plans announced to deploy the fare media on existing and upcoming networks in xx% cities.

The increasing popularity of contactless smartcards, bank cards and mobile ticketing has led to a decline in use of RFID tokens. Newer forms of fare media like keychains, fobs and smartwatches are gaining traction. This rise in use of smartwatches for ticketing is majorly led by rise in ticketing through digital wallets.

Media-wise spread of current and future deployments*
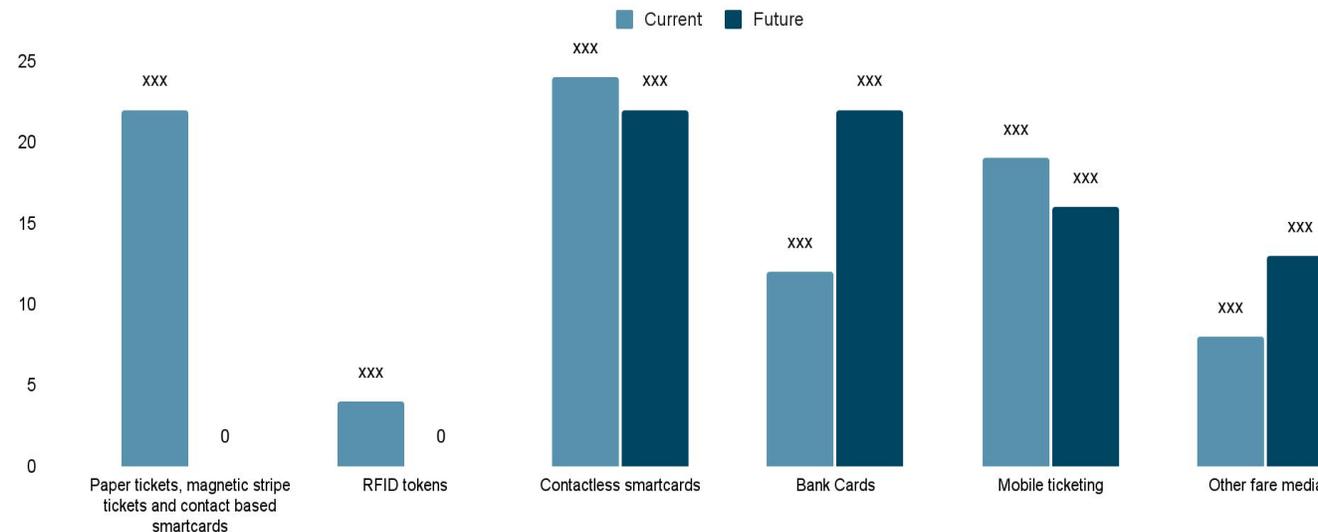
Notes: *- Future deployments of paper tickets, magnetic strip tickets, contact-based smartcards and RFID-tokens is not estimated

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2.1.7 Comparative analysis of fare media

Comparative Analysis

	User friendliness and reusability	Fare media issuance cost	Security and privacy	Weekly and Monthly fare capping option	Issues with performance
Contactless smartcards	🟨	🟦	🟩	🟩	🟦
RFID tokens	🟦	🟦	🟩	🟪	🟦
Paper, magnetic strip tickets and contact-based smartcards	🟦	🟩	🟩	🟪	🟦
Contactless bank cards	🟨	🟪	🟨	🟩	🟦
Mobile ticketing	🟩	🟪	🟨	🟩	🟨
NFC-enabled devices as fare media, Not including mobile phones	🟩	🟦	🟨	🟩	🟨

🟩	xxx	🟨	xxx	🟦	xxx	🟪	xxx

Key Issues: xxx