

1.7 Comparative Analysis of Alternative Fare Media (1/2)

Comparative Analysis of fare media

	User friendliness and reusability	Fare media issuance cost	Security and privacy	Weekly and Monthly fare capping option	Issues with performance
Paper tickets/ magnetic stripe tickets/ metal tokens/ contact-based smartcards					
RFID tokens					
Contactless smartcards					
Bank cards					
QR-code based mobile ticketing					
BLE-based ticketing					
NFC-based mobile ticketing					

 High/Yes	 Average	 Low	 Not Applicable
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XXXX

2.3 Contactless and Open Loop Payments (1/3)

Contactless Payments

Contactless payments enable transactions to be carried out without any physical connection between a consumer's payment device and point-of-sale terminal.

The global contactless payment market size was valued at USD1XXX by transaction value in XXX and is anticipated to expand at a compound annual growth rate (CAGR) of XXX% from XXX to XXX.

XXX

XXXX



Increasing integration of contactless payment technologies in mobile and other wearable devices



XXXX

Role of financial service corporations in the deployment of contactless payment for transit

XXX

Rising deployment of NFC-based fare payments across all serviced worldwide



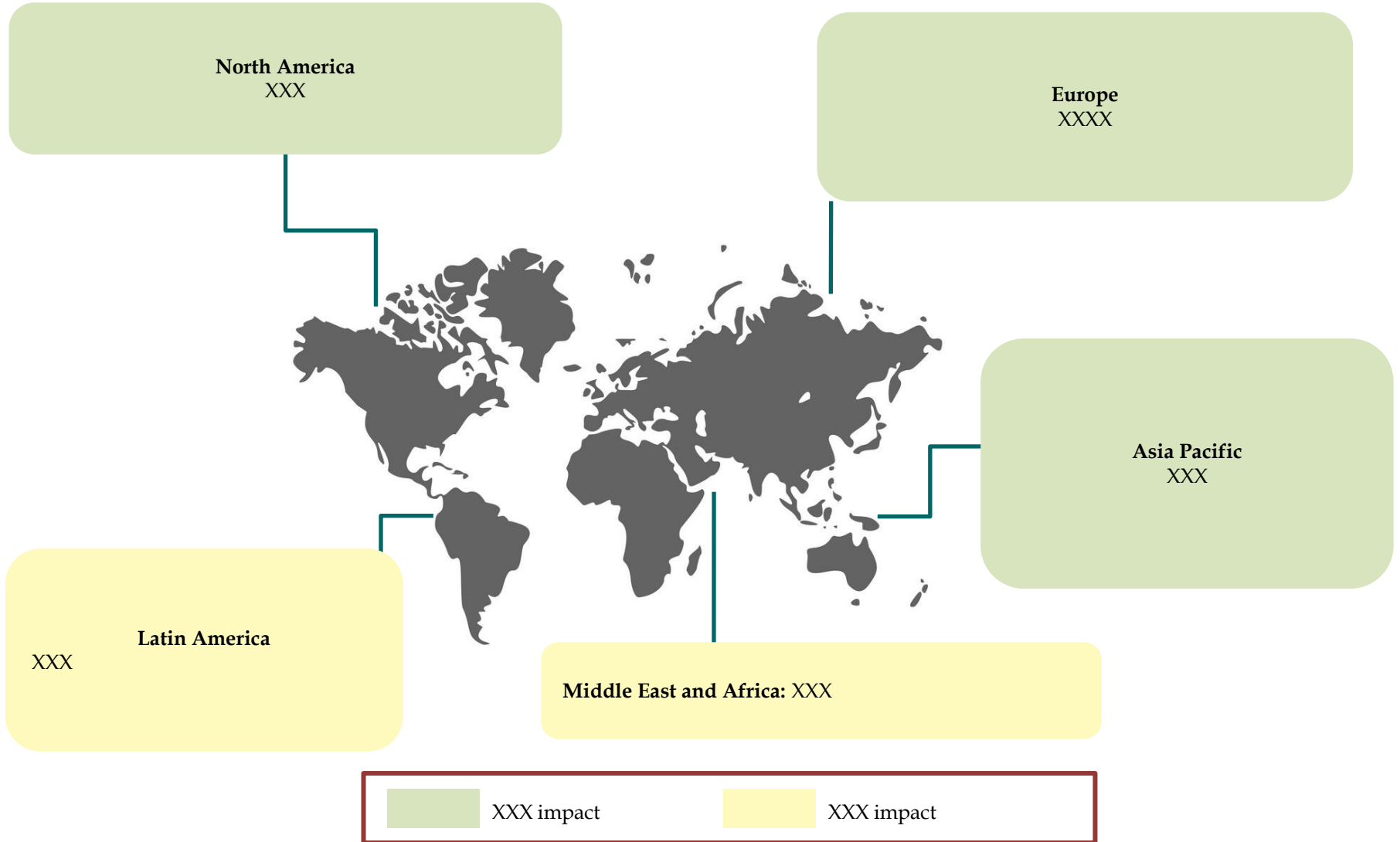
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XXX

3.4 Regional Impact

Impact of COVID-19 on mobile ticketing deployment across the regions



4.4 Recent Partnerships and Collaborations

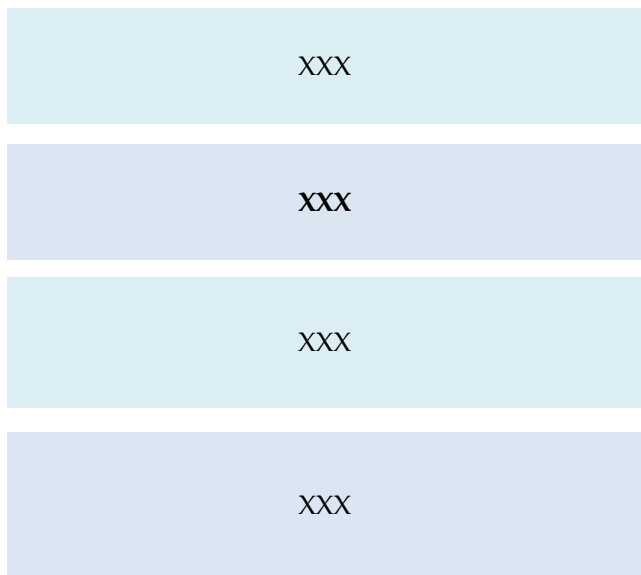
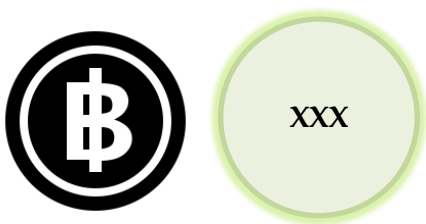
XXX partnerships between companies and XXX between companies and transit agencies have been announced over the past 12 months for development of NFC-based mobile ticketing for transit.

Region	City/Country/Region	Date	Recent partnerships and collaborations
North America	XXX	November 2020	XXX
	XXX	June 2020	XXX
Latin America	XXX	XXX	In February 2020, XXX, in collaboration with Mastercard, launched an NFC-based ticketing system. Passengers can now purchase tickets using NFC-enabled mobile phones, wristbands, and smartwatches as well as debit and credit cards equipped with NFC chips.
	Rio de Janeiro, Brazil	XXX	XXX
XXX	XXX	September 2020	XXX

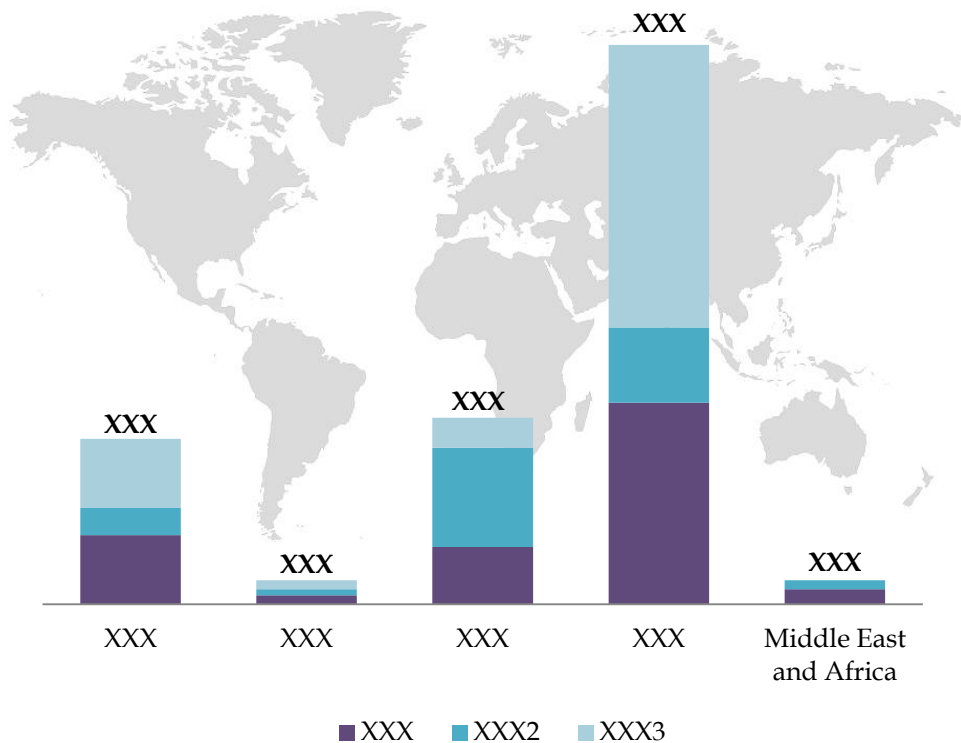
5.2 Growth in Mobile Ticketing Market Size by 2025

Global Mass Transit Research has analysed existing and upcoming fare collection systems in 500 cities in 112 countries across the world and estimates that the upcoming XXX mobile ticketing projects across the world present an opportunity of around XXX for the industry.

Market size of mobile ticketing for public transport



Region-wise increase in mobile ticketing market size for public transport by 2025 (USD million)



6.1 North America



XXX

Focus on NFC-based mobile ticketing in the region

Plans to deploy NFC technology

XXX



Cities where mobile ticketing has recently been deployed

- In Colorado, the Regional Transportation District (RTD) partnered with Masabi and Transit to offer a payment integration feature in the Transit app. The feature will be available in the Denver metropolitan area. The project is estimated to cost USD687,000 and will be funded using the AIM challenge grant.
- XXX
- XXX
- XXX

Factors paving the way for NFC deployment

Mobile ticketing is gaining traction

XXX

XXX

XXX

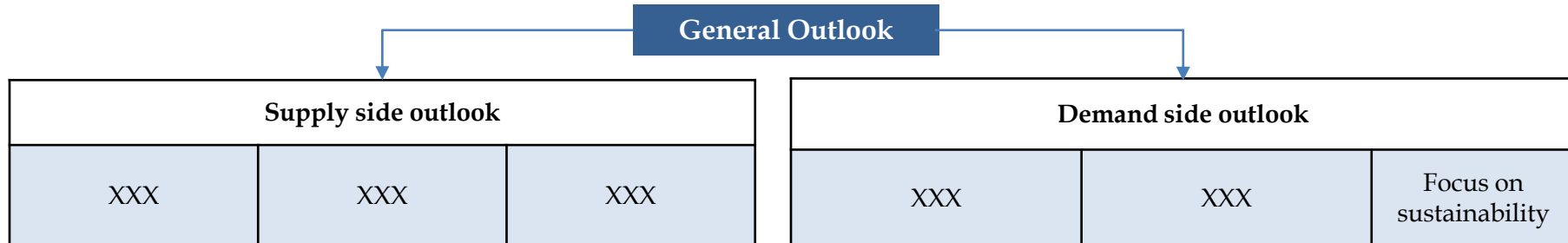
Increase in fare collection

XXX

Increasing popularity of wearables expected to influence NFC mobile ticketing

XXX

7.4 Industry Outlook (1/4)



Supply side outlook

XXX



Factors for increased competition

- XXX
- XXX
- XXX

Increased XXX investment - XXX