PROJECT DEVELOPMENT DELIVERY OF SPRINT 4

TEAM ID	PNT2022TMID47359
PROJECT NAME	Smart Solutions For Railways

Market Overview

The cracks and other problems with the rails generally go unnoticed due to improper maintenance and irregular manual track line monitoring that is being carried out in the current situation. Nowadays system have some limitations, if the bridge or track damaged, that information goes to railway authority people, they notifies and informs to the corresponding trains it will takes more time informing those information.

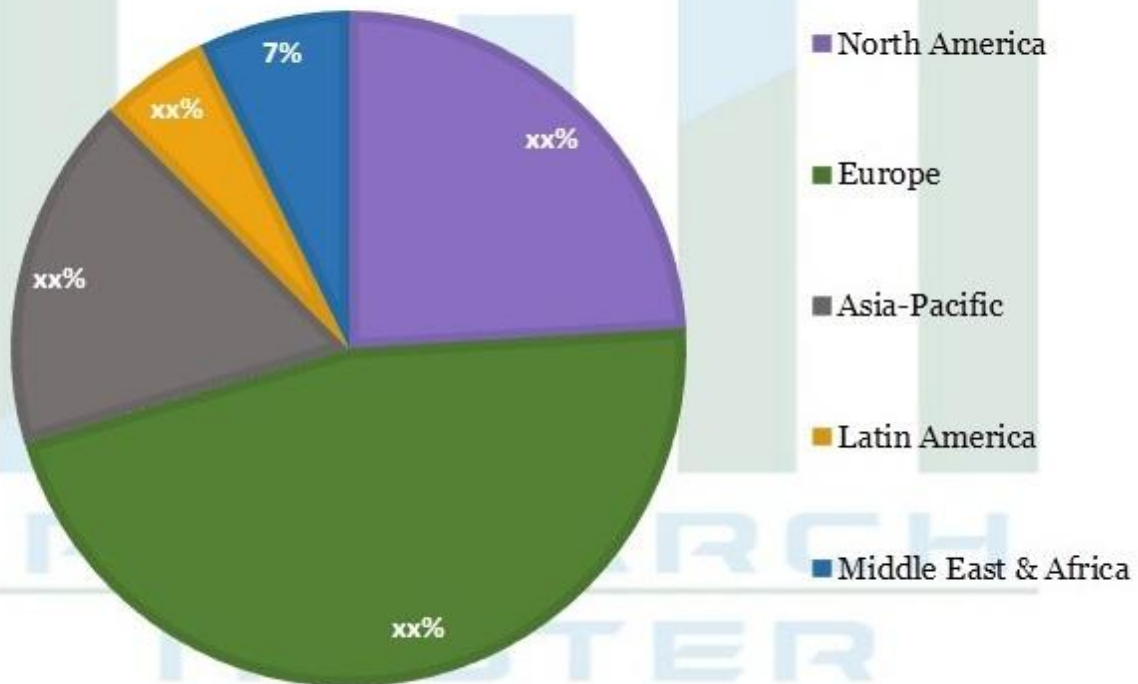**Growth Highlights Based On Region During 2017-2027**

-GNSS based Railway User Navigation (2009)"

- GPS to enable autonomous and reliable determination of train position, velocity under practically all environmental conditions
- Another ethnological approach for the train location function: the use of GNSS signals integrated with inertial sensors.

"LED-LDR Based Railway Crack Detection Scheme(2010)"

- Ultrasonic Inspections to be the best solution to crack detection.
- However, LED-LDR cannot check for surface and near-surface cracking where many of the faults are located.

Global Smart Railways Market Share (%), By Region, 2027

Legend:
- North America
- Europe
- Asia-Pacific
- Latin America
- Middle East & Africa

7%
xx%
xx%
xx%
xx%

Source: Research Nester