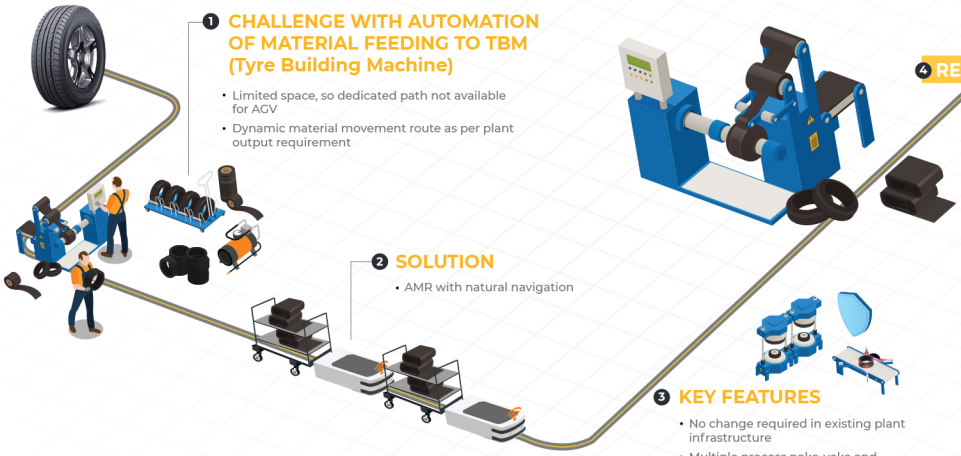
AMONG THE WORLD'S BIGGEST TYRE MANUFACTURERS

THE HI-TECH ROBOTIC SYSTEMZ LTD.
EVOLUTION THROUGH INNOVATION



1 CHALLENGE WITH AUTOMATION OF MATERIAL FEEDING TO TBM (Tyre Building Machine)

- Limited space, so dedicated path not available for AGV
- Dynamic material movement route as per plant output requirement

2 SOLUTION

- AMR with natural navigation

3 KEY FEATURES

- No change required in existing plant infrastructure
- Multiple process poke-yoke and safety interlocks
- Capability to integrate with client MES at later stage

4 RESULTS

No restriction on floor movement of MHE and people

Optimization of manpower

Higher safety and elimination of accidents

AUTONOMOUS MOBILE ROBOT

Dynamic re-routing of path to accommodate change in production plan