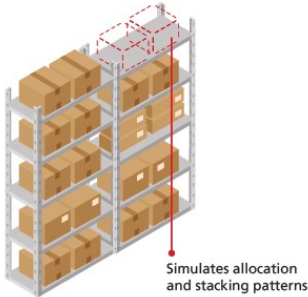


ASIA PACIFIC INNOVATION AWARD SHOWCASE: **WINNER OF MOST INNOVATIVE CUSTOMER SOLUTION AWARD**

DHL Supply Chain China collaborated with BMW to develop a series of five bespoke tools to improve cost and customer's operational efficiency. Of these, the Bin Type Allocation Tool alone has improved productivity by over 500%. The unique combination of solutions in DHL's innovation package, featuring both hardware and software solutions, received global attention from BMW who recognized the DHL team as the most innovative logistics provider with "The Global Golden Award" at BMW Annual Logistics Conference 2016.



Simulates allocation and stacking patterns

INNOVATION 1: **BIN TYPE ALLOCATION TOOL**

Designed to maximize storage space by simulating allocation and stacking patterns and identifying best stacking method.

- 500% improvement in productivity
- Zero error
- 123,309 man hours saved to date



Automated and real time view

INNOVATION 2: **SMART FIELD MANAGEMENT**

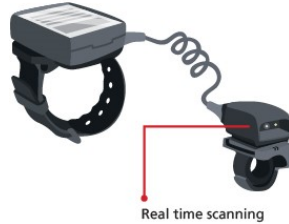
One of the first few operations in DSC China to implement the Internet + Kaban System, the smart field management provides real-time order-wave and life-cycle status updates. With the use of multiple screens to display order-waves, operations was able to move away from manual updates to an automated, real time view.

INNOVATION 3 AND 4:

RING SCANNER AND STORAGE LOCATION OPTIMIZATION TOOL

Enables picker to operate hands-free while scanning and picking.

- Reduced operator's walking distance and improved picking productivity
- Ring Scanner Solution improved productivity up to 10%



Real time scanning

INNOVATION 5:

DN SPLIT METHOD TOOL

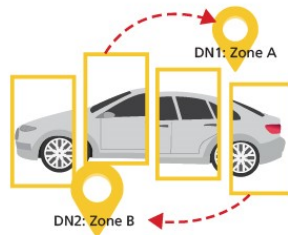
The DN split method strategically splits workload by warehouse zones in both physical field and system. It greatly reduced consolidation time of items from over 10 zones, boosting outbound productivity by 50%.

2.6 MILLION
PARTS

4.9K
MEZZANINE FLOORS

940
FLOOR STACK LOCATIONS

1.8K
RACKING LOCATIONS



WINNER



DHL Supply Chain China,
Yan Jiao BMW Warehouse
Operations Team

BENEFITS



Labor productivity
improvement over 10%



Labor cost reduced at least 8%