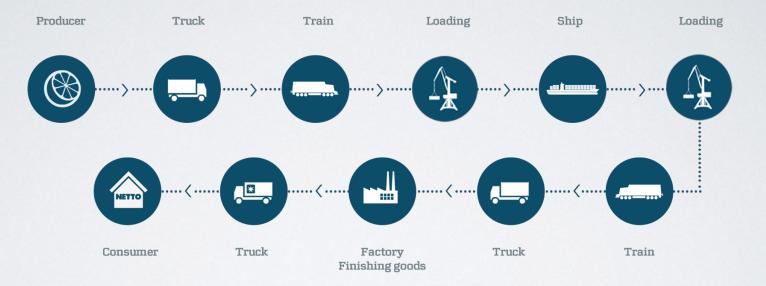
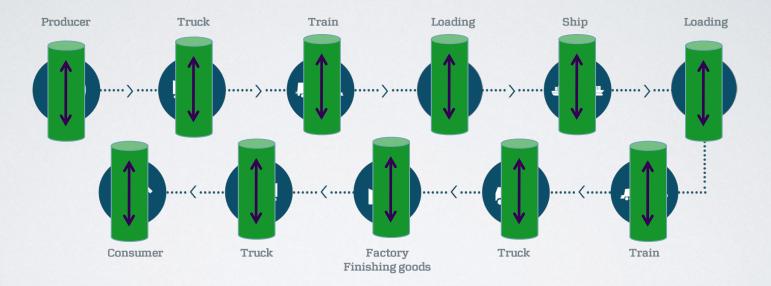
Transparency in the supply chain with smart packaging Erik Ekkel (CTO)

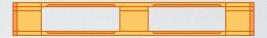


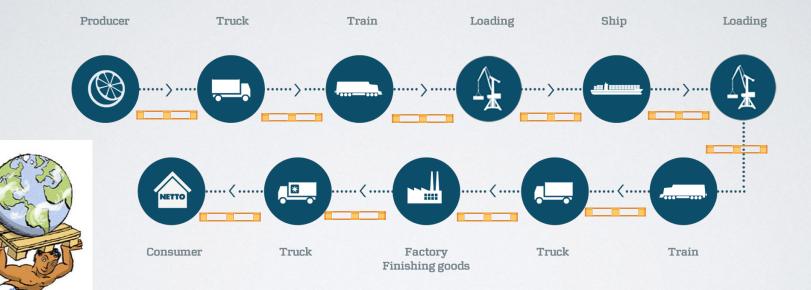
SUPPLY CHAIN - TODAY



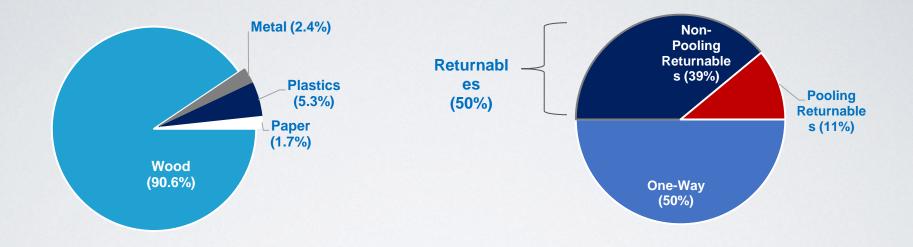


AHRMA PALLETS MOVE THE WORLD





AHRMA THE MARKET (2015)



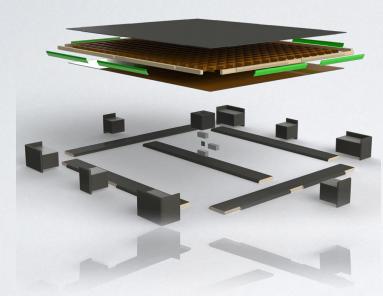
Global Pallet Market (Production): Σ 2.75 bln Units

Global Pallet Fleet: Σ 9 bln Pallets

SUPPLY CHAIN WITH SMART PA



SMART PALLET MODULAR DESI



HC

CE

- Modular system
- Flexible footprint
- No nails
- Life span over 10 years
- Sustainable
- Hygene
- Esthetic
- Certified

Smart (location, temperature, shocks)



SQF

LEVEL 2 CERTIFICATION

ATEX(Ex)



The mark of responsible forestry

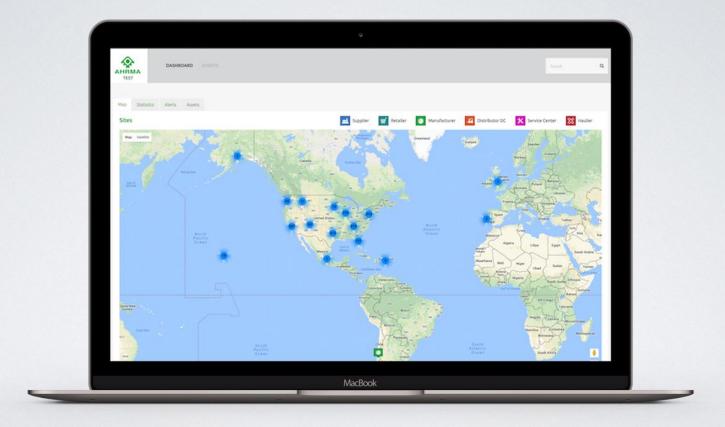


AHRMA IOT ARCHITECTURE

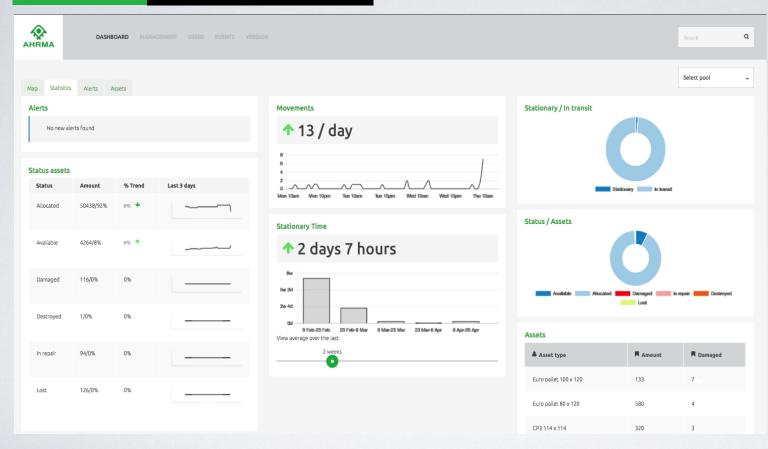


- IoT every asset linked to internet
- Bluetooth low energy active transponders
- Range 300 meters and increasing
- Full supply chain control without human interference
- Single pallet information with smartphone compatebility
- Pallet Product connectivity over API
- Connectivity with blockchain for fully automated shipments

AHRMA REALTIME COCKPIT / DASHBOA



AHRMA DASHBOARD – KPI'S



A Logged in as: Holger Heckmann

Q

V

Last known location Théméricourt Map Satellite Osny A15 Pontoise N104 Dammartin-en-Goële N330 Cergy Goussainville Le Mesnil-Amelot Roissy-en-France Limay A13 Les Mureaux AI Magnanville Seine Flins-sur-Seine N184 Villepinte A1 A3 Saint-Denis Poissy A14 A14 A86 A104 A13 Neuilly-sur-Seine Thoiry Paris A86 Boulogne-Billancourt E15 Plaisir La Queue-les-Yvelines Versailles Créteil Méré E5 Montigny-le-Bretonneux A6B A106 N406 N4 Orly N10 Parc naturel régional de la N118 4°C Haute Vallée Orsav de Chevreuse N6 Brie-Comte-Robert Forêt ère-École Les Ulis

Asset (8003)040580899999261001313

Overall Measurements Status

Home Asset (8003)040580899999261001313

Overall

 \mathbf{x}

AHRMA

GRAI: (8003)040580899999261001313 Transponder ID: A0:E6:F8:5A:5F:48 Overall status: Allocated Type: Euro pallet 80 x 120 Weight: 17.8 Production date: 23-12-2016 12:53 Allocated to pool: Monoprix At site: Monoprix Finish



Last seen: 16-02-2017 17:02 Health: NORMAL Movement status: Stationary

100%

-60



N3 Meaux Claye-Souilly N3 Mareuil-lès-Meaux A140 Chessy Crécy-la-Chapelle Serris Farem Gretz-Armainvilliers N36 N4 Fontenay-Trésigny N36 Domaniale de N6 Chaumes-en-Brie Rambouillet Rambouillet N104 Évry N104 Lieusaint ASb N36 A10 Brétigny-sur-Orge Corbeil-Essonnes Mormant Épernon

ASSET DATA DASHBOARD

DASHBOARD MANAGEMENT USERS EVENT

Home Asset (8003)040580899999331002876

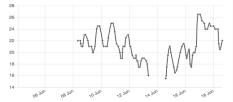
Asset (8003)040580899999331002876

🐼 AHRMA

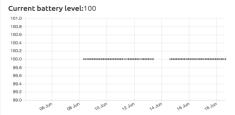
Overall Measurements Status

Temperature history

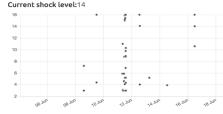




Battery level



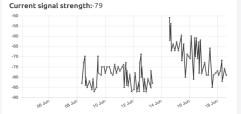
Shock level



Humidity



Signal strength

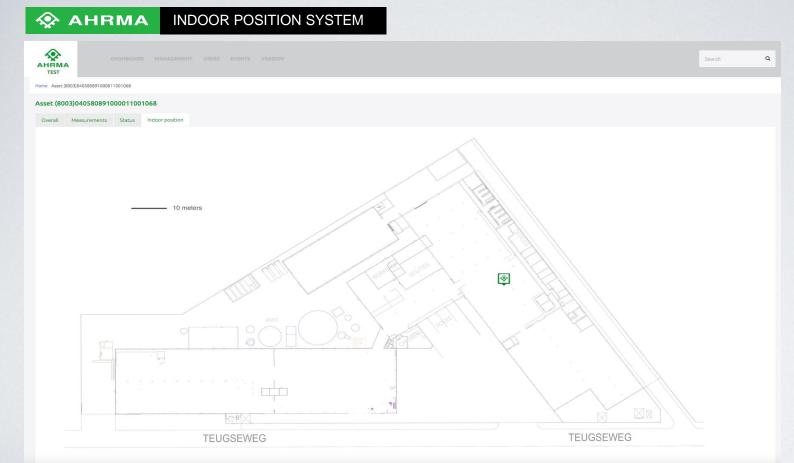


Q

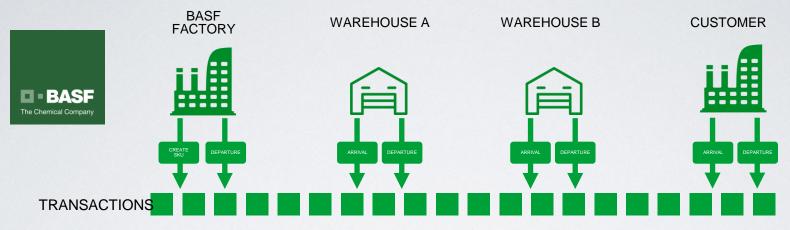
Weight

Current weight:-





AHRMA USE CASE VENDOR BASED INVENTORY





Arrival & Departure events Temperature Events Weight Events New business models

Pay on arrival

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- Pay as you use
- Auto replenishment
- Auto Insurance Claims





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