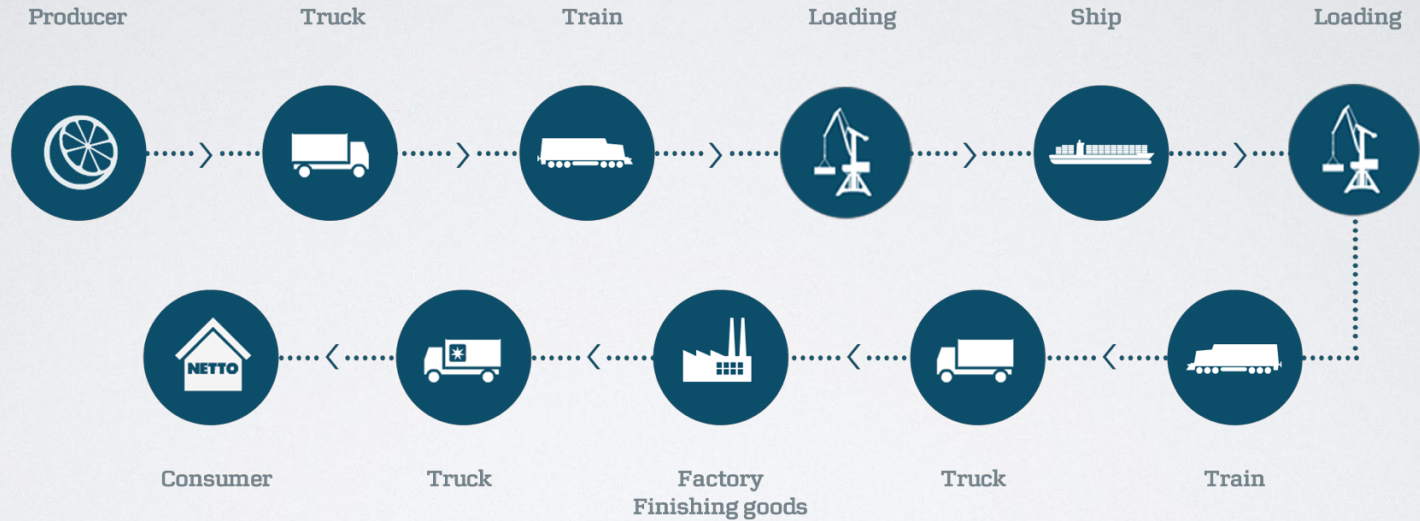


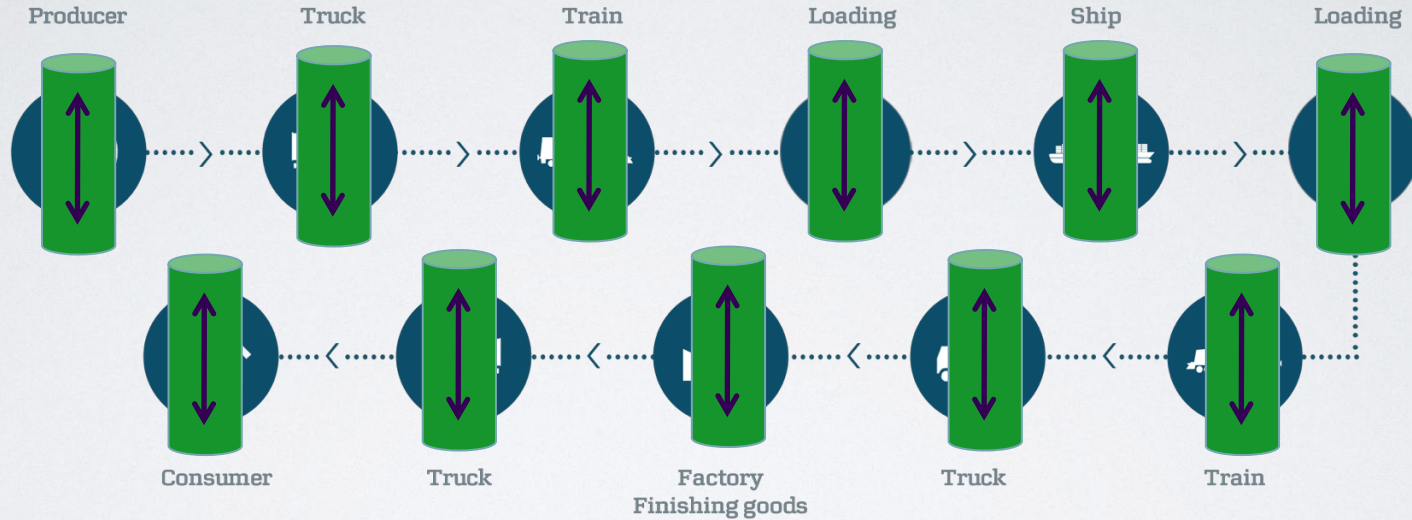
# Transparency in the supply chain with smart packaging

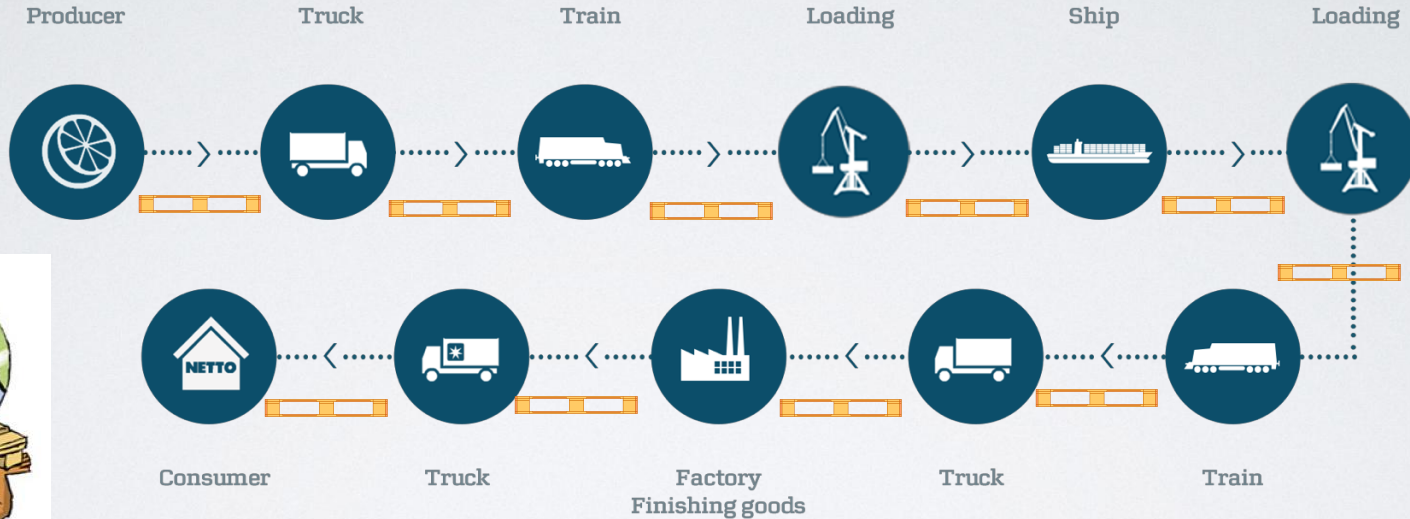
Erik Ekkel  
(CTO)

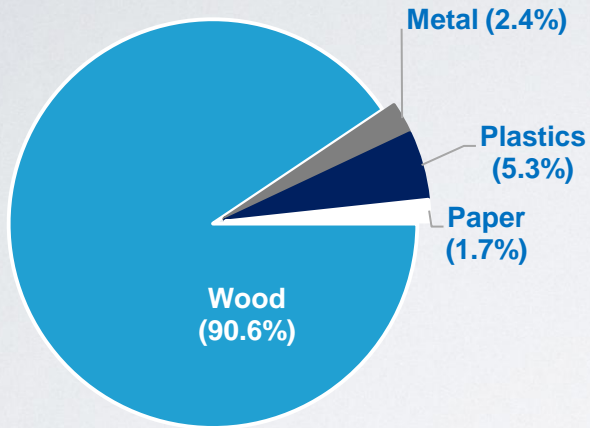


# AHRMA

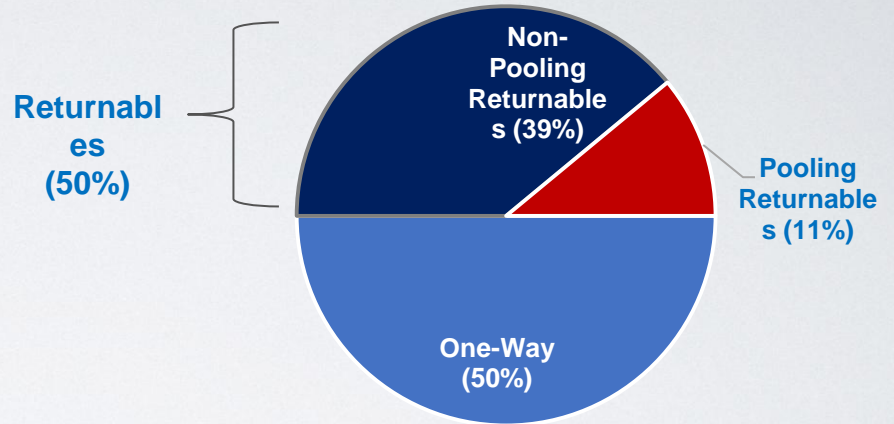






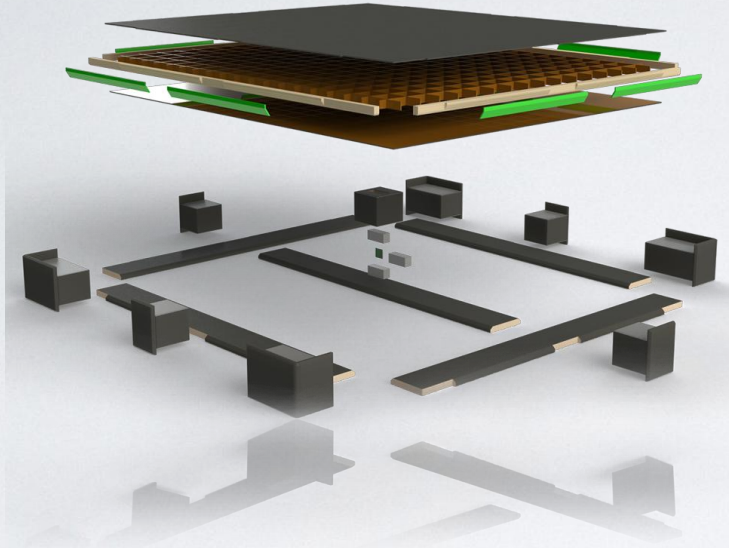


**Global Pallet Market (Production):**  
**Σ 2.75 bln Units**

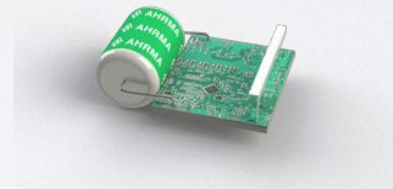


**Global Pallet Fleet:**  
**Σ 9 bln Pallets**





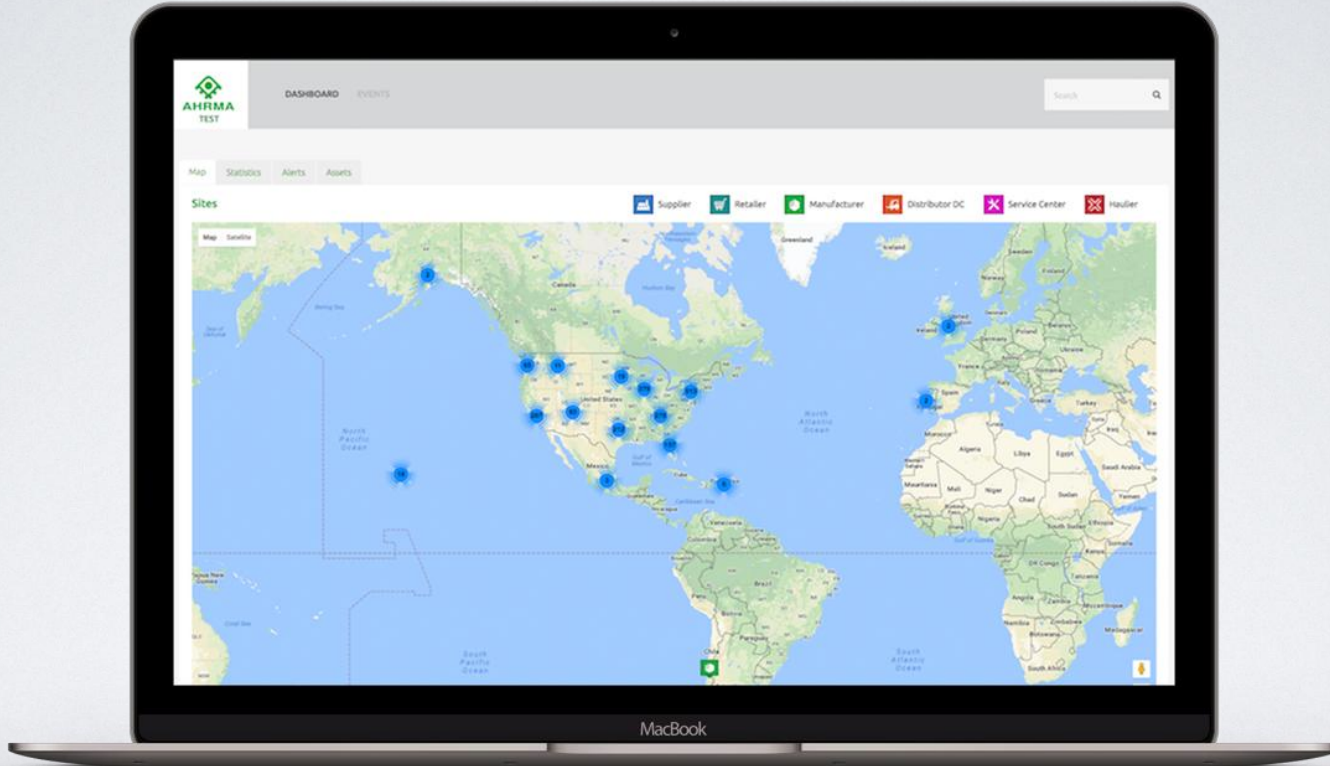
- Modular system
- Flexible footprint
- No nails
- Life span over 10 years
- Sustainable
- Hygiene
- Esthetic
- Certified
- Smart (location, temperature, shocks)





- 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 compatability
- Pallet Product connectivity over API
- Connectivity with blockchain for fully automated shipments







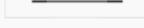



Map Statistics Alerts Assets

### Alerts

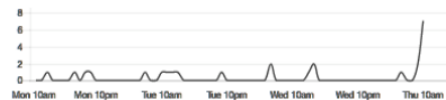
No new alerts found

### Status assets

| Status    | Amount    | % Trend                                 | Last 3 days   |
|-----------|-----------|---|---|
| Allocated | 50438/92% | 0% <span style="color: green;">↓</span> |  |
| Available | 4264/8%   | 0% <span style="color: green;">↑</span> |  |
| Damaged   | 116/0%    | 0%                                      |  |
| Destroyed | 1/0%      | 0%                                      |  |
| In repair | 94/0%     | 0%                                      |  |
| Lost      | 126/0%    | 0%                                      |  |

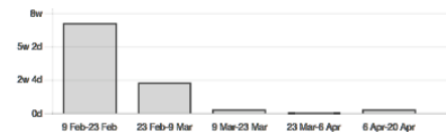
### Movements

↑ 13 / day



### Stationary Time

↑ 2 days 7 hours



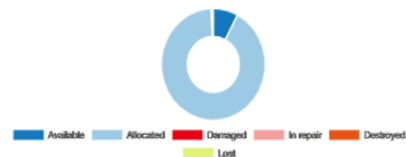
View average over the last:



### Stationary / In transit



### Status / Assets



### Assets

| Asset type            | Amount | Damaged |
|-----------------------|--------|---------|
| Euro pallet 100 x 120 | 133    | 7       |
| Euro pallet 80 x 120  | 580    | 4       |
| CP3 114 x 114         | 320    | 3       |



Home Asset (8003)04058089999261001313

**Asset (8003)04058089999261001313**Overall **Measurements** Status**Overall**

GRAI: (8003)04058089999261001313

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](#)**Current Status**

Last seen: 16-02-2017 17:02

Health: NORMAL

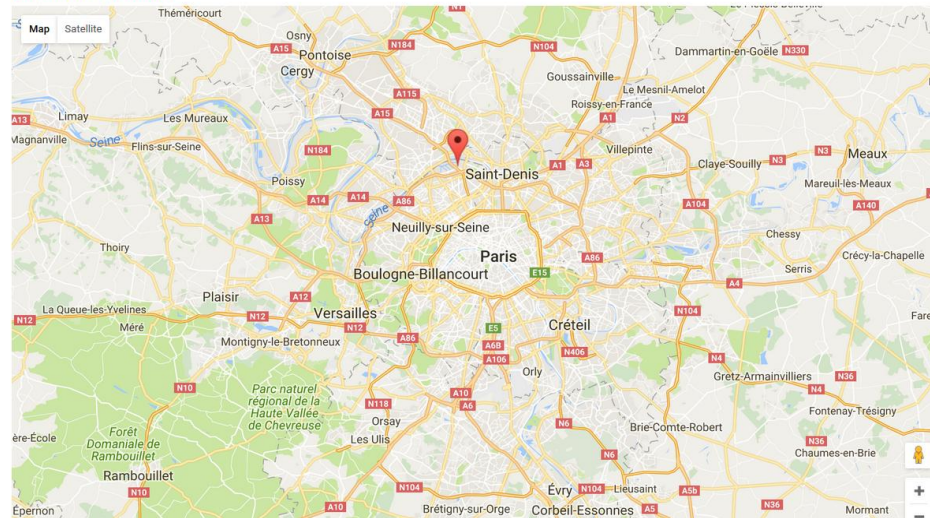
Movement status: Stationary

100% 

-60



4°C

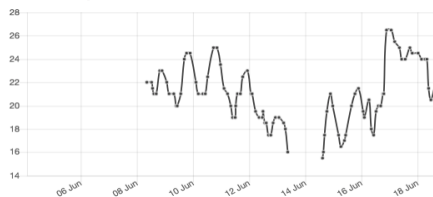
**Last known location**

[Home](#) Asset (8003)04058089999331002876**Asset (8003)04058089999331002876**

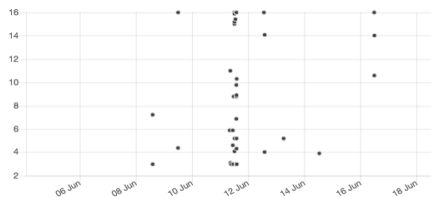
Overall Measurements Status

**Temperature history**

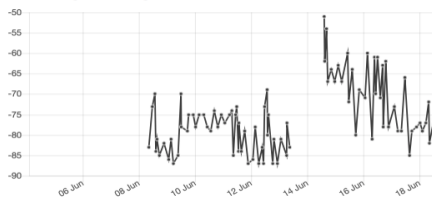
Current temperature:22

**Shock level**

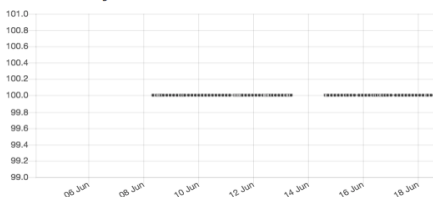
Current shock level:14

**Signal strength**

Current signal strength:-79

**Battery level**

Current battery level:100

**Humidity**

Current humidity:-

**Weight**

Current weight:-

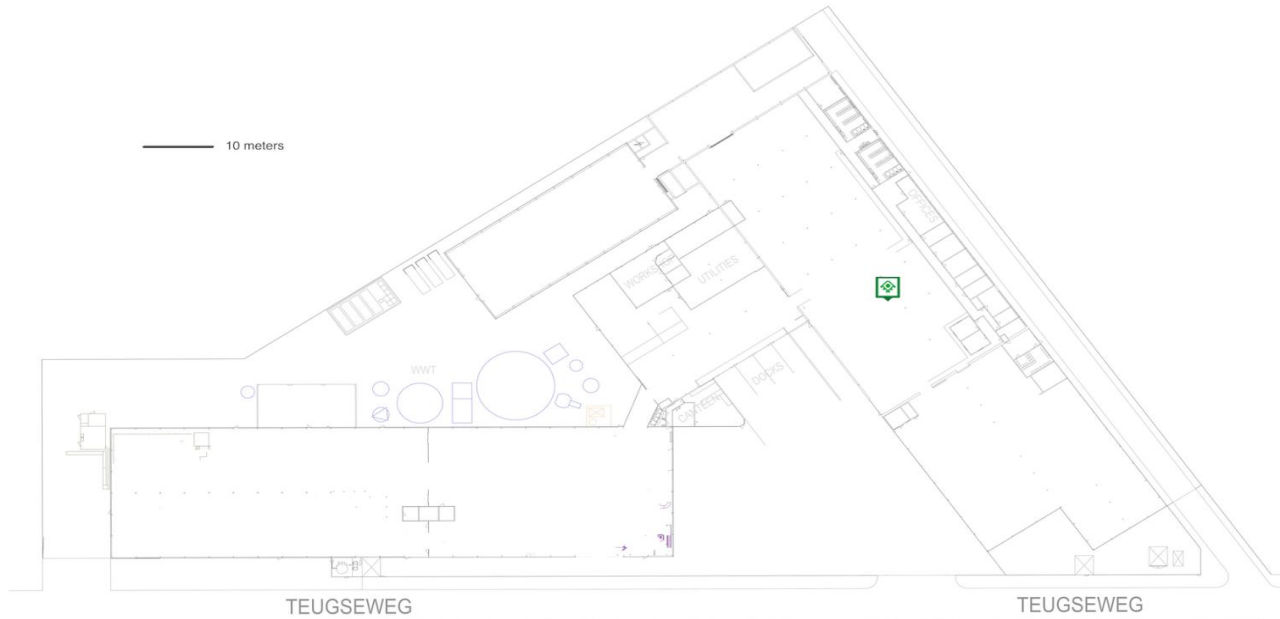


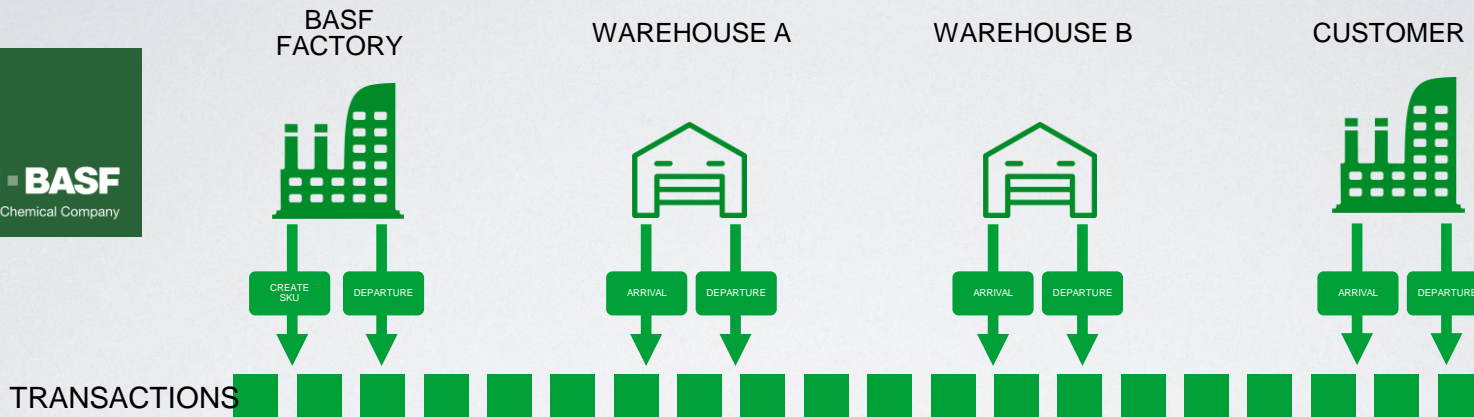
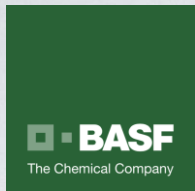


Home Asset (8003)040580891000011001068

Asset (8003)040580891000011001068

Overall Measurements Status Indoor position





Arrival & Departure events  
Temperature Events  
Weight Events

New business models

- Pay on arrival
- Pay as you use
- Auto replenishment
- Auto Insurance Claims
- .....





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