



ALLIANCE FOR PARKING DATA STANDARDS

INTEGRATION, COMPATIBILITY, COMMUNICATION

Who we are...



British Parking Association

The BPA is a not for profit organisation, representing, promoting and influencing the parking and traffic management profession throughout the UK and Europe. As the leading UK authority in the sector we represent around 700 organisations



European Parking Association

The EPA is the umbrella organisation for European parking associations. The national member associations represent the parking sector which consists of private companies and public bodies that are operating and managing on-and off-street parking structures and services



International Parking Institute

The IPI is the world's largest and leading association of professionals in parking. Members include everyone from garage owners and operators to architects to city managers to government agencies, health care centres, universities, airports, and convention centres.

Our Alliance...



- Is a not for profit organisation
- Aims to create a consensus-built international standard that will establish a common language for data elements and definitions in the **parking, transportation and mobility sector**.
- Is creating data standards that will cover the full range of parking data elements, including **location information and transactions, occupancy and utilization, pricing and payment**.

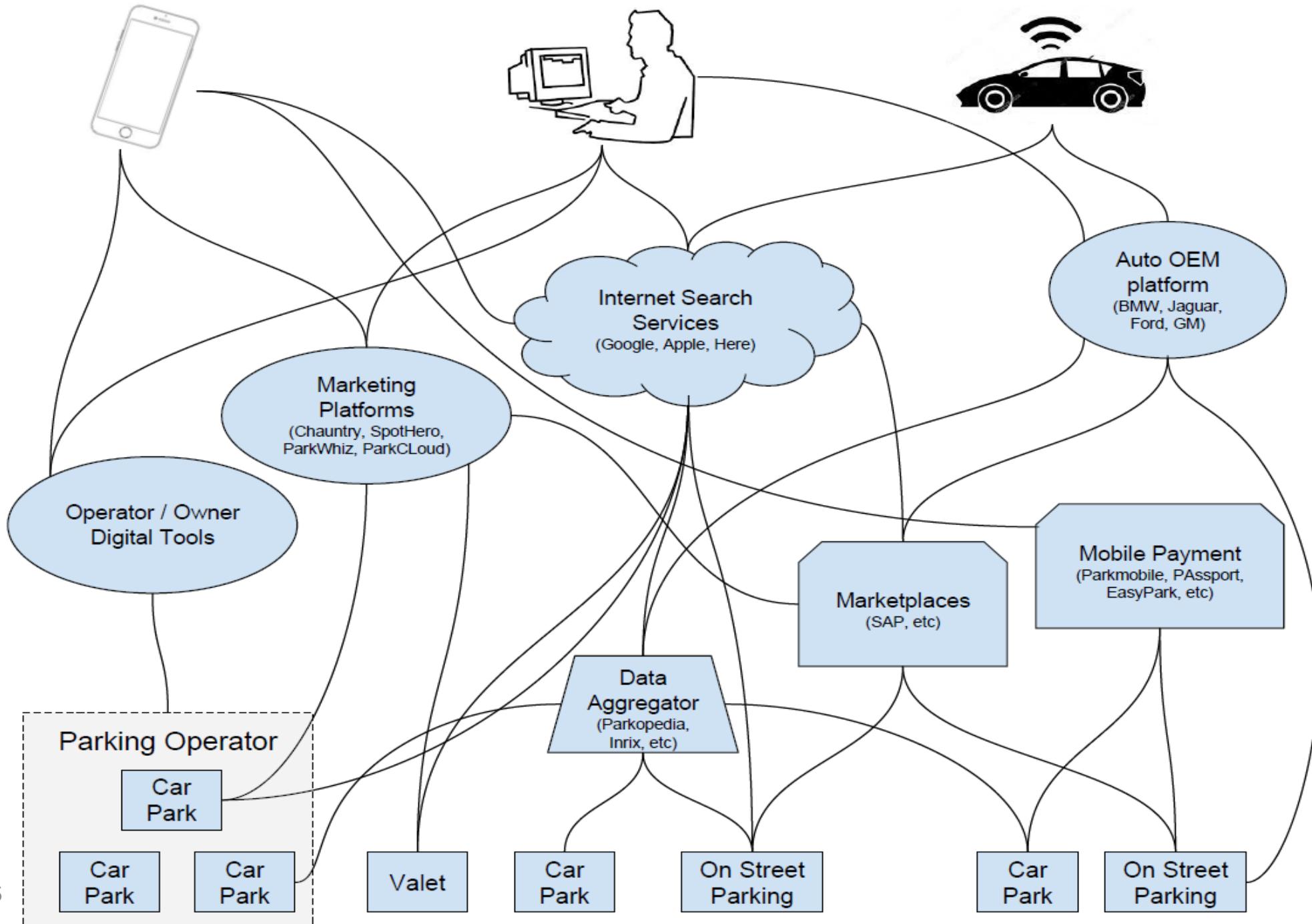
Our Mission...



Facilitating seamless integration, compatibility
and communication between

- Parking entities,
- The automotive industry,
- ITS stakeholders,
- IT developers,
- Services, map and app providers,

...as well as other stakeholders



Parking in the Digital World

Digital Parking Domain



Customer

Parker

Car/app

AVP

Payment Service

Journey Planner/Guidance

Data Service

Rights Database(s)/Access Point(s)

Parking Operator

Static

Dynamic

Customers

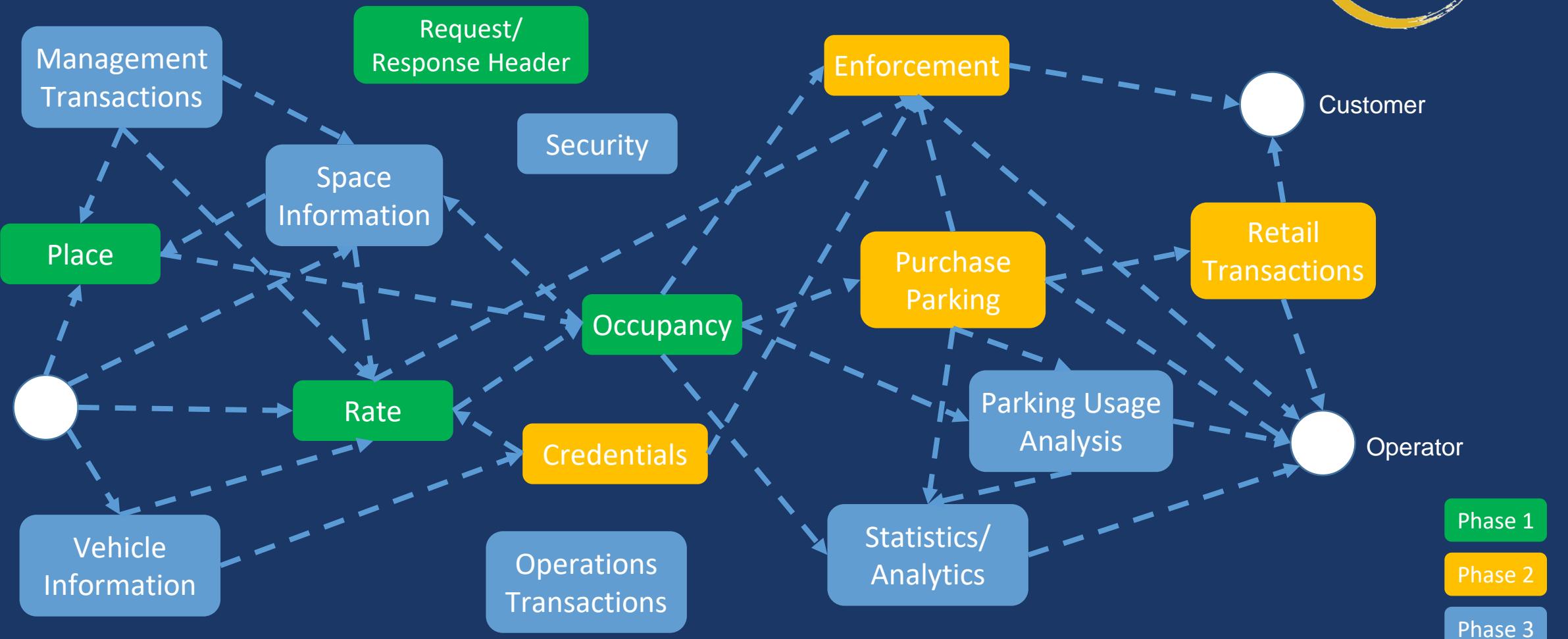
Performance

Car Park AVP

Parking Technology

→ Interface requiring standardisation

Business Process



Parking Data Standards



- MDA modelling using UML and tool support for schema generation
- Using the DATEX II modelling framework (CEN 16157-1:2018)
- Tooled in Enterprise Architect v13
- Phase I defined Place, Rates and Occupancy
- Concepts to support parking industry view of the domain model, but lots of reuse of useful constructs from existing standards:
 - DATEX II Parking – CEN/TS16157-6:2014
 - TPEG-2 PKI – ISO 21219-14
 - Some linkage to traffic management approaches UK:UTMC; DE-OCIT

Parking Data Standards



- Phase 1 available at the start of June, released at the US IPI Congress (c 3,000 attendees)
- Further phase releases later in 2018
- Active dialogue with automotive industry concerning extension for Automated Valet Parking
- Alliance Parking Data Model expected as a strong input into the revision of the DATEX II Parking publications model this summer – already presented to CEN/TC278 & ISO/TC204



www.allianceforparkingdatastandards.org