

POLIS

CITIES AND REGIONS FOR TRANSPORT INNOVATION

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Automated Valet Parking (AVP)

the key to a positive parking agenda in cities

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ERTICO - ITS Europe

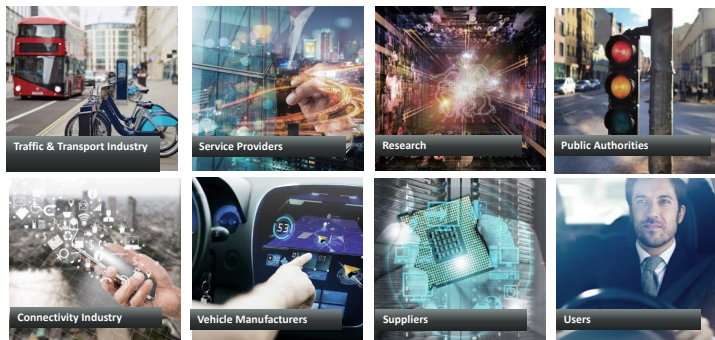


Making mobility smarter

- Together for tomorrow's journey.

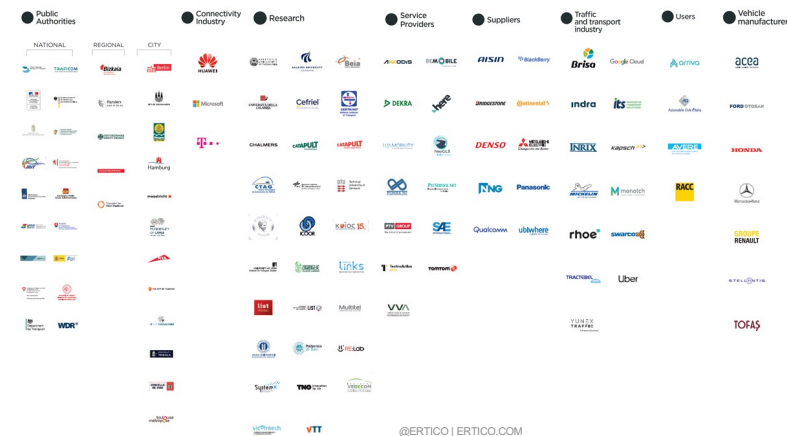
ERTICO BRING TOGETHER 8 CROSS-SECTORS

To facilitate and promote safer, more efficient and sustainable mobility solutions

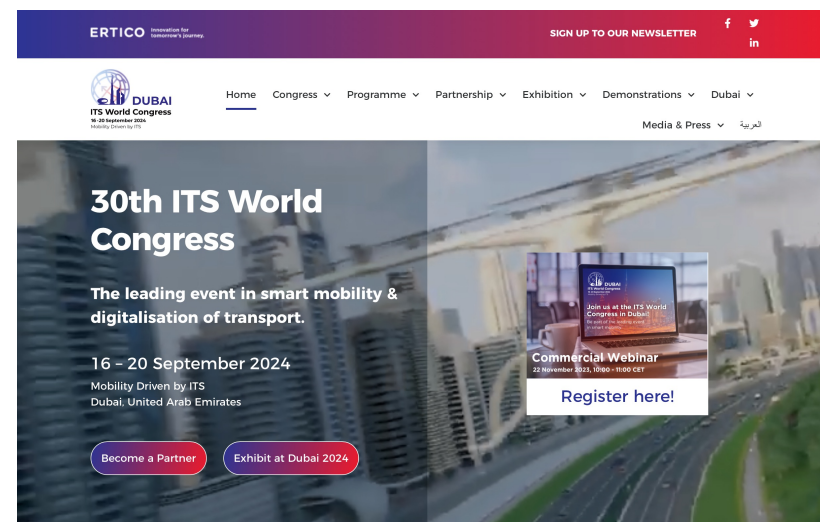


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AVP: Automated Valet Parking



- Vehicle parks itself in the car park
- Automated free parking slot detection
- A complete user journey



AVP Why: Win-win for every stakeholder

For users:

- Convenience for everyone
- Hassle-free parking
- Time-saving
- Safety and security]
- Seamless experience



For City Authorities

- Traffic reduction
- Support multimodality
- Reduced risk of accidents
- Optimal use of public space

For Operators

- Operational efficiency
- New revenue opportunities
- Increased parking space capacity
- Increased safety



For Service Providers

- New revenue channels
- Optimised use of EV charging station





AVP Why: Win-win for every stakeholder

The key to a **positive parking agenda**
for cities

For City Authorities

- Traffic reduction
- Support multimodality
- Reduced risk of accidents
- Optimal use of public space





AVP: the key to....

- Cities as intermodal hubs
- Integrated approach of modes
- Green Towns and cities
- Road safety
- ...



AVP WHAT: Realising the CUSTOMER JOURNEY



1. Set Up

Set up an account and learn about AVP and additional services like EV charging.



2. Before & While Driving

Check AVP and services availability, and find and reserve a parking spot.



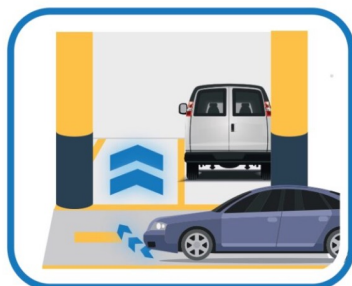
3. Arriving

Arrive at the parking facility and navigate to the drop-off zone.



4. Start Transaction

Start automated valet parking handover vehicle to infrastructure at the drop-off zone.



5. During drop off and pick up

Utilization of additional services. No intervention of the driver.



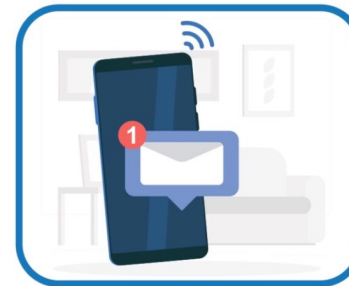
6. End transaction

Driverless handover of the vehicle from infrastructure to driver.



7. Service Information

Get payment information and monthly invoice for parking and additional services.



8. Customer Loyalty

Receive updates and communications, and benefit from promotions.



AVP HOW:

European AVP ERTICO Innovation Platform (EAVP.eu)

- Facilitating and supporting the implementation of priority actions in the **deployment** of AVP in Europe
- Fostering and cultivating **relevant standards**, European related **legislation**, and aligning on **deployment roadmaps**
- Bringing the technology to **large-scale flagship city** deployments
- **Cooperating** with the ongoing EU legislation

- **Tech WG**: focus to AVP Mode 2 leading the roadmap
- **Regulatory WG**: EU focus –member of ACV group
- **‘Lighthouse’ WG**: Focus to deployment
- **Comms and dissemination**: What we do here





AVP Outlook

- 'Merge' of ISO and APDS

ISO 23374-1:2023

Intelligent transport systems

Automated valet parking systems (AVPS)



- Extend German legislation towards EU , ensure Scalability
- Proof economic viability
- Extend the concept to match city sustainable mobility goals



EAVP: Why join

- Develop the AVP product & AVP industry standard to:
- Provide an end-to-end customer experience in a sustainable urban mobility market
- Access the broad network of AVP stakeholders and key players from the automotive, technology and parking industry
- Define the future of parking and be amongst the innovators!

- OEMs
- AVP infrastructure providers
- **Public (City) authorities**
- Parking industry (car park operators, construction companies, parking systems' suppliers, payment service providers, parking service providers)
- Logistics industry
- Telecommunication industry
- Generic software providers
- Relevant associations or other third parties



**Thank you for
your attention!**



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