digital.auto

Introduction

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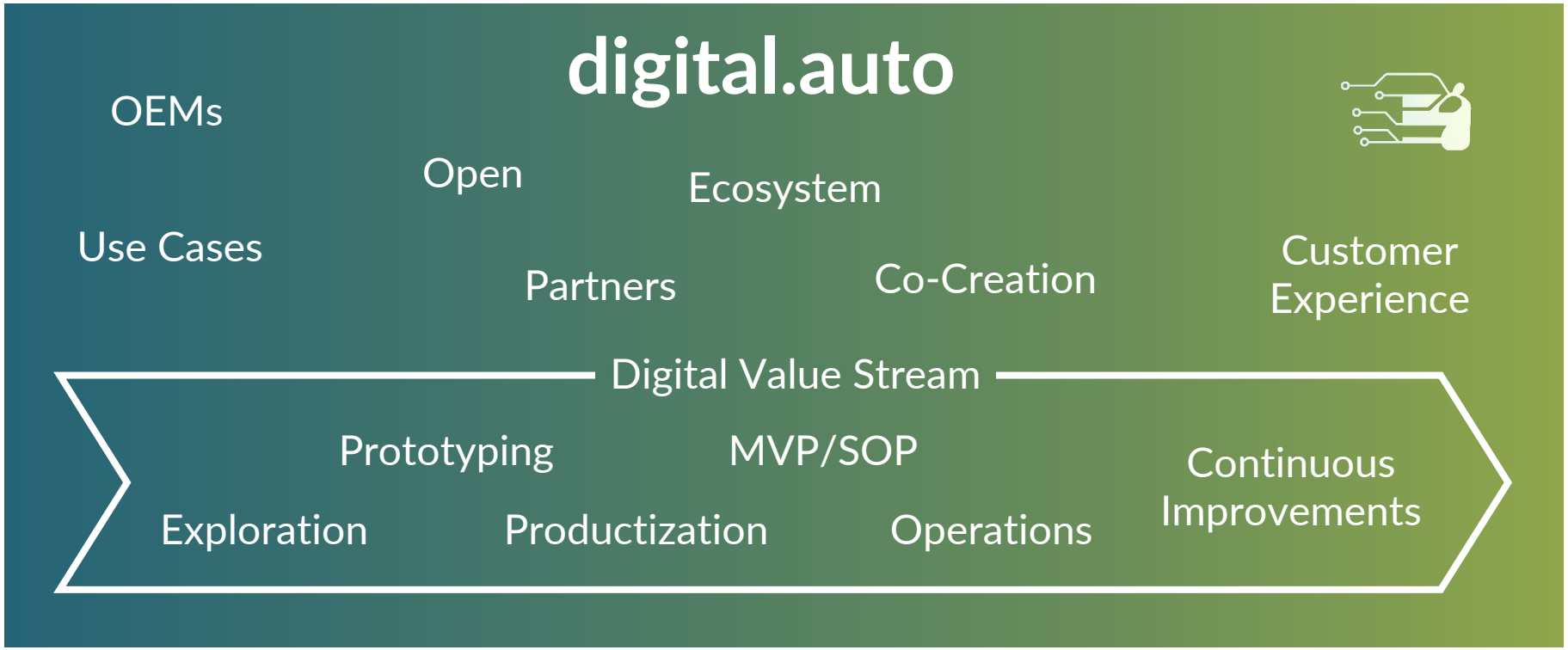


Customer Need

Customer Value

Software-first
Service-architecture
Vehicle Apps
OTA
SdV
Signal2Service
AIoT
Digital Twin API

Why?

VOLKSWAGEN
AKTIENGESELLSCHAFT

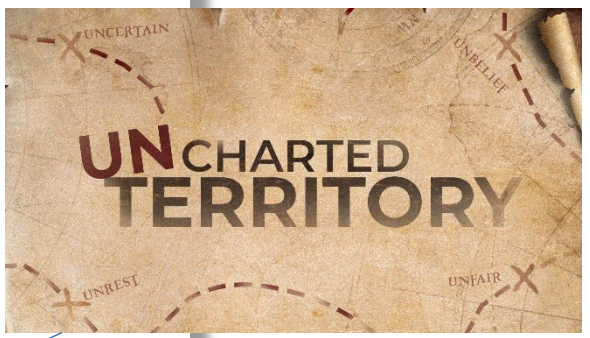
The Big Shift

Revenue pools of the car industry today and tomorrow

	Today	2025E	2030E
ICE Revenues			
EV Revenues			
Software-enabled Revenues			
∑ Total*	>2 € tn	>3 € tn	~5 € tn

*Schematic overview based on internal and external analysis

NEW AUTO



Navigating the uncharted territory

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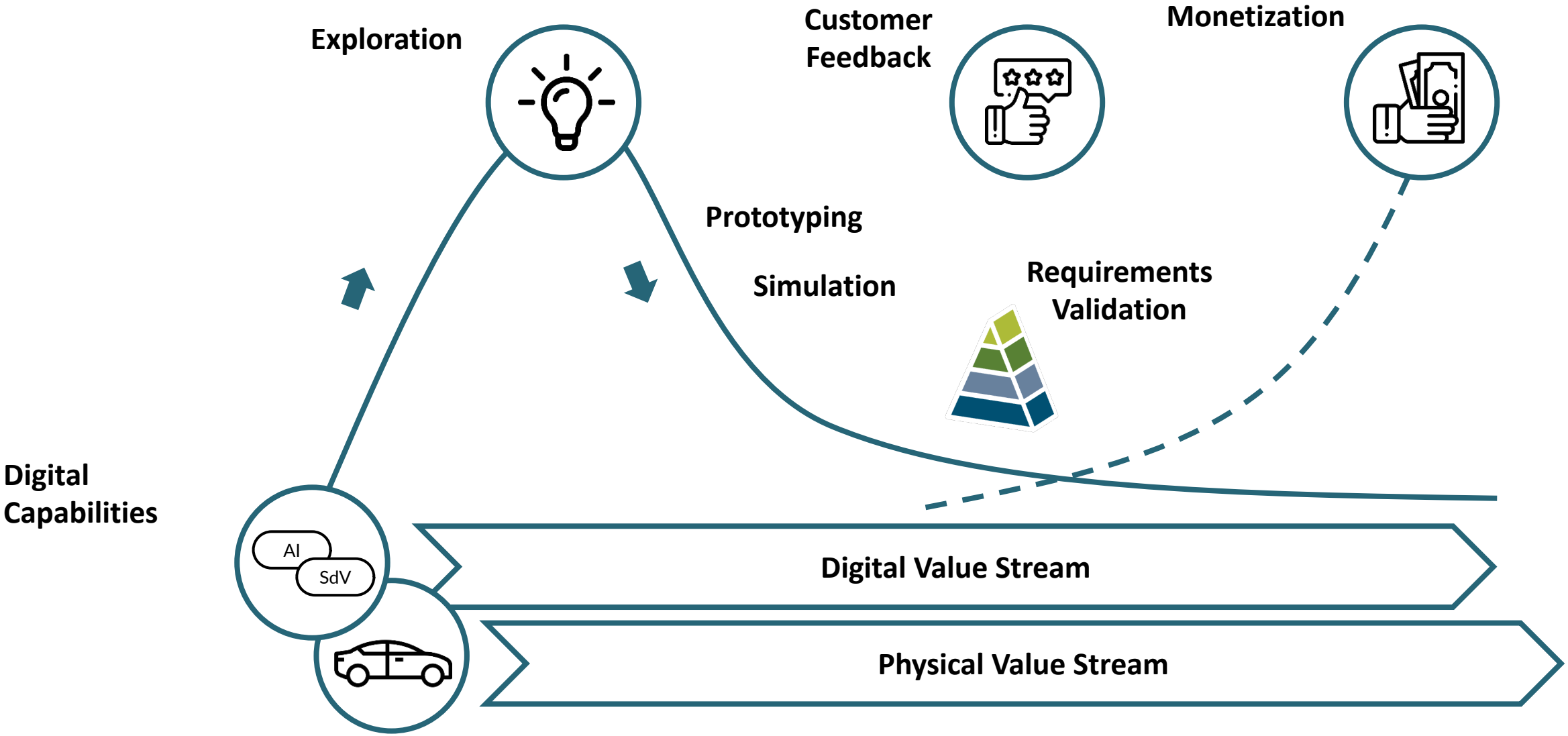
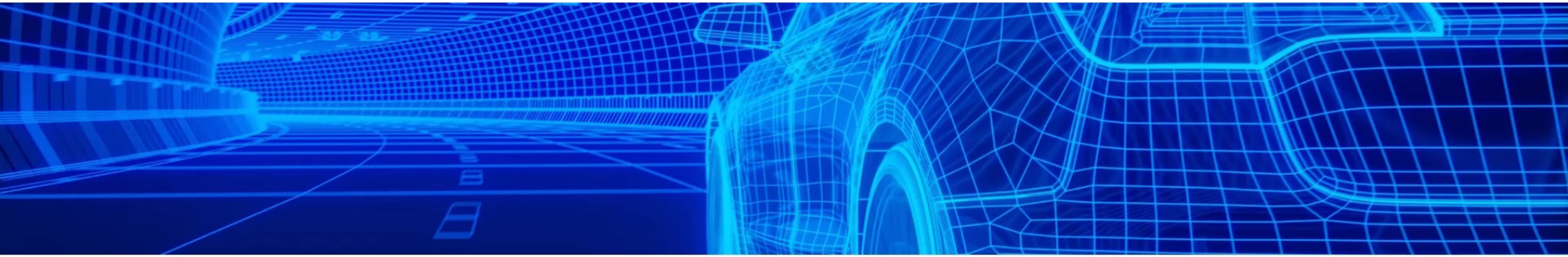


Home

playground.digital.auto

Select Model



CVI Catalogue

Browse, explore and enhance the catalogue of Connected Vehicle Interfaces

Get Started

Prototyping

Build and test new connected vehicle app prototypes in the browser, using Python and the CVI catalogue

Get Started

User Feedback

Collect and evaluate user feedback to prioritize your development portfolio

Get Started

Industry Partners

BOSCH

DASSAULT SYSTEMES

Standards & Open Source

COVESA

ECLIPSE FOUNDATION

Academic Partners

Ferdinand-Steinbeis-Institut

SNEAK
PREVIEW

Eclipse Integration Prototype

Journey | Code | Run | Analysis | Feedback

Create Eclipse Velocitas Project

```
6  from ACME_Car_ICE_v01 import Vehicle
7
8  vehicle = Vehicle()
9
10 print("->", await vehicle.Body.Hood.IsOpen.get())
11
```

Search

+ New Wishlist API

Vehicle	BRANCH
Vehicle.**ADAS**	BRANCH
Vehicle.ADAS.**ABS**	BRANCH
Vehicle.ADAS.ABS.**IsEnabled**	ACTUATOR
Vehicle.ADAS.ABS.**IsEngaged**	SENSOR
Vehicle.ADAS.ABS.**IsError**	SENSOR
Vehicle.ADAS.**ActiveAutonomyLevel**	SENSOR
Vehicle.ADAS.**CruiseControl**	BRANCH
Vehicle.ADAS.CruiseControl.**IsActive**	ACTUATOR
Vehicle.ADAS.CruiseControl.**IsEnabled**	ACTUATOR
Vehicle.ADAS.CruiseControl.**IsError**	SENSOR
Vehicle.ADAS.CruiseControl.**SpeedSet**	ACTUATOR
Vehicle.ADAS.**EBA**	BRANCH
Vehicle.ADAS.EBA.**IsEnabled**	
Vehicle.ADAS.EBA.**IsEngaged**	SENSOR
Vehicle.ADAS.EBA.**IsError**	SENSOR

Aligning the value streams

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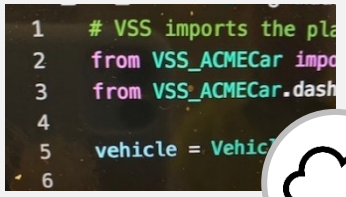
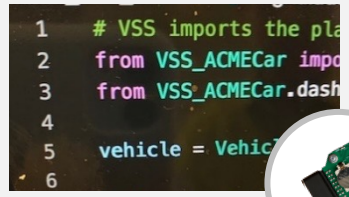
Digital Value Stream

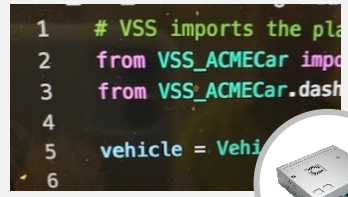
digital.auto Playground



ECLIPSE FOUNDATION



ECLIPSE FOUNDATION

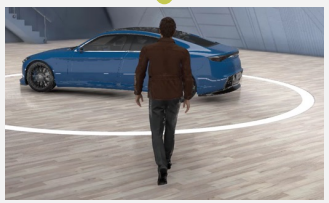


VCU/HPC

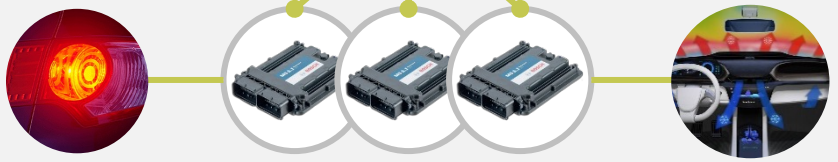
COVESA VSS & Eclipse KUKSA

JSON

Basic test service



Experience Simulation



ECUs for required sensors/actuators

Physical Value Stream

Thank You!

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