# **PSW Company Presentation**

# ENGINEERS OF THE AUTOMOTIVE FUTURE

\_ In more than 30 years, PSW has developed into one of the leading automotive engineering partners.

Today the company is actively and imaginatively helping to shape the mobility of the future with 1000 specialists based in Ingolstadt and Neckarsulm. We see ourselves as an innovative development partner that develops entire vehicles and systems as well as integrating technologies for its customers.

The foundation of our success is our wide range of services, something which is rarely found in the automotive industry. These services are exactly the expertise necessary to help shape the mobility of the future, ranging from pre-development and simulation to testing and support of vehicle series production. We combine our extensive range of services with efficient project management in a matrix organisation. Thus we are able to offer our customers the complete realisation of projects from a single source.



\_ WE BRING

# MOBILITY VISIONS

TO LIFE.

enabling

the entire development process

envisioning

in emerging technologies

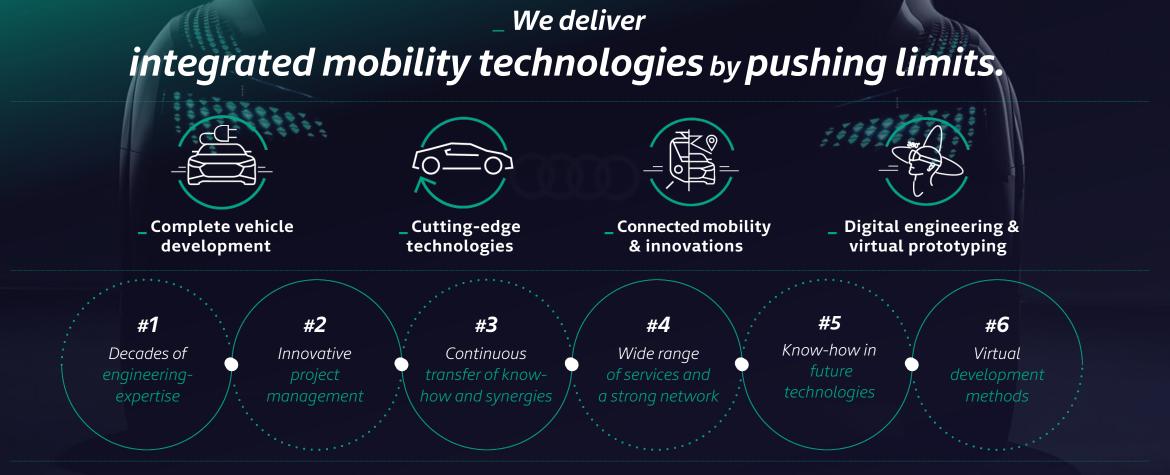
#3 efficient

*in execution* 



# What sets us apart

A promise, four key fields of excellence, six areas of customer added-value.



From classical engineering to shaping the future of mobility.

> 30 years engineeringexpertise

1988

\_ FOUNDED

AS A THREE-MAN COMPANY
FOCUSSING ON CLASSICAL ENGINEERING
SERVICES

2016

\_ 100%

**OWNERSHIP** 

BY AUDI AG

\_STRATEGIC REORGANISATION

WITH A MATRIX ORGANISATION

2019

\_ CERTIFICATION AS GENERAL VEHICLE DEVELOPER

\_ RECORD ANNUAL SALES

€130 MILLION

2009

\_ AUDI A5 SPORTBACK

DERIVATIVE DEVELOPMENT 2018

\_ AUDI Q8 SUV

OVERALL DERIVATIVE DEVELOPMENT 2020

\_ AUDI A3

DEVELOPMENT OF SPORTBACK AND LIMOUSINE

MATTHIAS PFISTER

CHAIRMAN OF THE BOARD ENGINEERING

**SABINE MOCH** 

BOARD MEMBER FOR FINANCE, COMPLIANCE AND INTEGRITY **PETER MOSCH** 

BOARD MEMBER FOR PERSONNEL, LEGAL AND ORGANIZATION





Audi A5 SB



Lamborghini Urus



Audi Q8



Audi Al:ME

# #1\_Decades of engineering excellence (3/3) Full power ahead towards achieving the electric future of mobility.

30 years' engineeringexpertise





# Da wird selbst Batman neidisch







automotive future

Autogramm Audi e-tron GT Concept

Der Flachblitz



## #2\_Innovative project management We develop mobility solutions in an agile matrix.

project management



**FOCUSSING ON OEM CUSTOMER ORGANISATION AND PROCESSES** 

> **SHORT RESPONSE TIMES** ROUGH STRONG STEERING **COMMITTEES**

**CLEAR RESPONSIBILITIES** THROUGH RAPID DECISION-MAKING **CHANNELS** 

> **MAXIMUM CUSTOMER FOCUS INCREASES DEVELOPMENT EFFICIENCY**

Our agile project management mirrors the vehicle series structure creating efficiencies and freedom for our customers.





Highly synergetic development of the sportback and limousine variants



Audi A3 Limousine



Maximum COP approach forparts (front end, door concept, rear view mirrors)



Lamborghini Urus





Optimisation of technology



2<sup>nd</sup> generation Audi A5 SB

range of servics

## #4 Our wide range of services

Forward-looking expertise combined with a wide-ranging portfolio.



\_ General Development



Alternative Powertrains



\_ Integral Safety



\_ Smart City



Virtual Engineering



\_ Innovation Hub



\_ Engineering



Interior User Experience



\_ Thermal Management & Aerodynamics



\_ Quality, Testing & Validation

### #5 \_ Know-how in future technologies

Our contribution for sustainable, autonomous and connected mobility.





#### **SUSTAINABILITY**

We have the expertise to help develop electric drivetrains, integrate them into vehicles and optimize their range.



#### **AUTONOMOUS MOBILITY**

We have expertise in comprehensive safety systems and design of the interior by considering, integrating and testing all functions.



#### **CONNECTIVITY**

We program what is conceivable. This enables us to connect vehicles with their environment and ensure a more sustainable flow of traffic.

HMI/infotainment, Car-2-X)



## #6 \_ Virtual development methods

How our customers benefit from digital vehicle development.

development methods

#### VIRTUAL TECHNOLOGY **VALIDATION**

PSW tests load cases virtually within a few hours. Using hardware, this takes much longer.

#### **DIGITAL AERODYNAMICS DEVELOPMENT**

PSW digitally develops aerodynamics, thus reducing test times with hardware to a few hundred hours.

#### **VIRTUAL REALITY TECHNOLOGY**

PSW develops solutions with VR methods, bringing technologies to life and thus facilitating design decisions.



#### We are all this and much more - PSW.

**2**38

400



OEM CUSTOMER PROJECTS IN

COVENTIONAL AND FUTURE TECHNOLOGY FIELDS

6

**YEARS AVERAGE** 

**PERIOD OF STAFF RETENTION** 

**130** 

MILLION EUROS TURNOVER
GENERATED BY PSW IN 2019

**YEARS OLD** 

**AVERAGE AGE OF STAFF MEMBERS** 

1000 2

PEOPLE WORK FOR
PSW AT TWO LOCATIONS

**22** 

NATIONALITIES DEVELOP GLOBAL IDEAS AND SOLUTIONS

3-4 🙈

MAJOR PROJECTS IN PARALLEL IN AN AGILE MATRIX ORGANISATION



YEARS OF ENGINEERING EXCELLENCE.



# \_ Making tomorrow possible.

We look forward to shaping the mobility of the future with you!