

_ PSW Company Presentation

_ PSW IDENTITY Who we are

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.



What we stand for Our vision.

_ WE ARE A LEADING DEVELOPMENT PARTNER FOR FUTURE MOBILITY.

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.



_ PSW IDENTITY What drives us Our creed.

_WE BRING

MOBILITY VISIONS TO LIFE.

#1 enabling

the entire development process

envisioning

#2

in emerging technologies

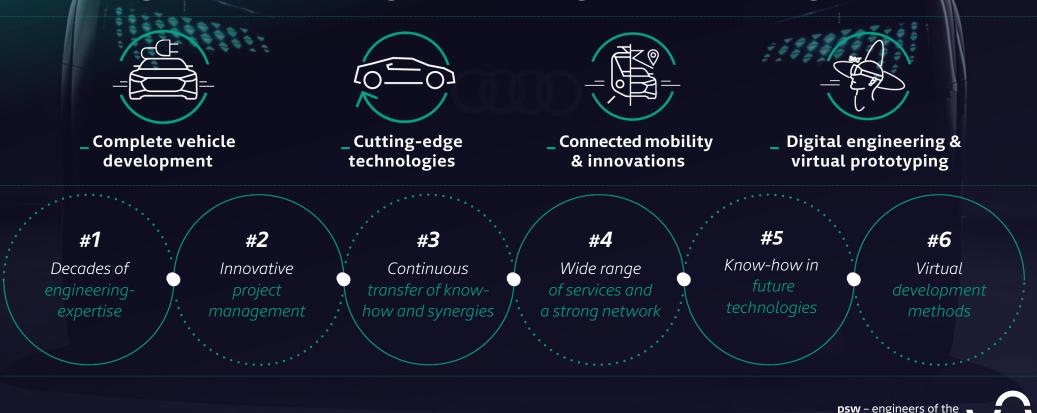
#3 efficient

in execution



What sets us apart A promise, four key fields of excellence, six areas of customer added-value.

_ We deliver integrated mobility technologies by pushing limits.



automotive future

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#1_Decades of engineering excellence (1/3) From classical engineering to shaping the future of mobility.

30 years' engineeringexpertise



ANDREAS FIDORRA CHAIRMAN OF THE BOARD, BOARD MEMBER FOR DEVELOPMENT

GUIDO GRABO BOARD MEMBER FOR FINANCE, COMPLIANCE AND INTEGRITY

SASCHA HATTEMER BOARD MEMBER FOR PERSONNEL, LEGAL AND ORGANIZATION

> **psw** – engineers of the automotive future

_ PSW EXPERTISE **#1_Decades of engineering excellence** (2/3) References*

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Lamborghini

Urus

an IN:Q 8000

Audi Q8

engineeringexpertise



Audi A5 SB



IN A 32

Audi A3

Audi e-Tron Concept

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

30 years' engineeringexpertise

Testfahrt mit dem Audi e-Tron GT Concept: Am Steuer der Zukunft



Da wird selbst Batman neidisch







Autogramm Audi e-tron GT Concept

Der Flachblitz



Profitability

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

Forward-looki

Innovative project management

FOCUSSING ON OEM CUSTOMER ORGANISATION AND PROCESSES

> SHORT RESPONSE TIMES THROUGH 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.



#3 _ Continuous transfer of know-how and synergies We maximise synergies.

Continuous transfer of know-how and synergies



#4 _ Our wide range of services Forward-looking expertise combined with a wide-ranging portfolio.

Wide range of servics



#5 _ Know-how in future technologies Our contribution for sustainable, autonomous and connected mobility.

Know-how in future technologies





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

(E.g. dimensioning high voltage batteries, aerodynamics, thermal management)



AUTONOMOUS MOBILITY

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

(E.g. driver assistance systems, automated testing, interior user experience)



CONNECTIVITY

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

E.g. Smart City, Audi traffic light info system, HMI/infotainment, Car-2-X)



PSW EXPERTISE **#6 _ Virtual development methods** How our customers benefit from digital vehicle development.

development methods

VIRTUAL TECHNOLOGY

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

VALIDATION

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.



_ PSW EXPERTISE We are all this and much more – PSW.

YEARS OLD AVERAGE AGE OF STAFF MEMBERS 400

OEM CUSTOMER PROJECTS IN COVENTIONAL AND FUTURE TECHNOLOGY FIELDS

YEARS AVERAGE PERIOD OF STAFF RETENTION

130

MILLION EUROS TURNOVER GENERATED BY PSW IN 2019 PEOPLE WORK FOR PSW AT TWO LOCATIONS

1000 2

222

NATIONALITIES DEVELOP GLOBAL IDEAS AND SOLUTIONS 3-4

MAJOR PROJECTS IN PARALLEL IN AN AGILE MATRIX ORGANISATION YEARS OF ENGINEERING EXCELLENCE.

<u>2</u> 30

psw – engineers of the automotive future



Making tomorrow possible. We look forward to shaping the mobility of the future with you!