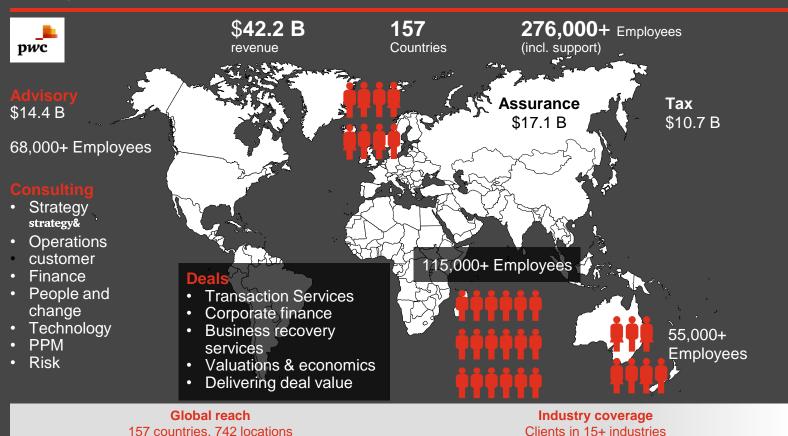




PwC – one of the top 4 services firms globally

PwC and Strategy& at a glance

PwC global





PwC

1

The only of the big 4 with at scale integrated strategy consulting



Recognition – (selection)

Leader: Worldwide Business Consulting

Services

IDC MarketScape, 2018

Vanguard Leader: Sourcing Strategy

Consulting ALM, 2018

Leader: Digital Products & Services

IDC MarketScape

Agenda

1. Current Forecast/ Market Drivers

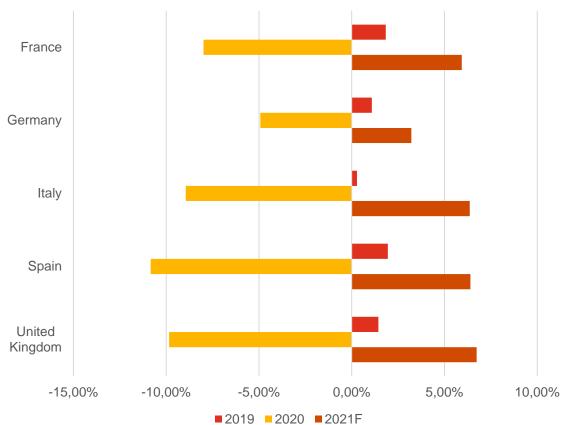
2. Sales and Production Update

3. Recovery Paths

Current Impact: Real GDP and Economic Sentiment Indicator Markets have recovered significantly in 2021 vs. 2020, but the momentum has begun to slow

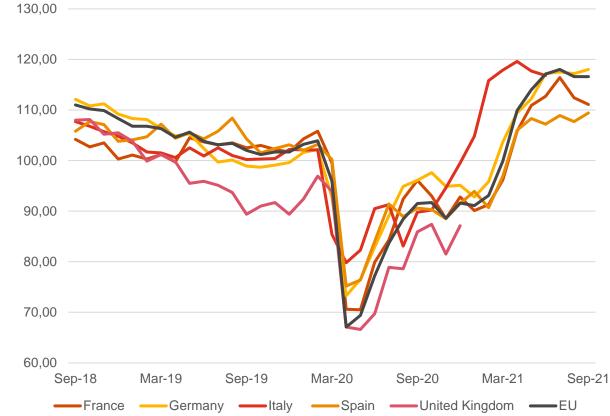
EU & Top 5: Real GDP Annual Growth

2019 – 2021F (percentage change)



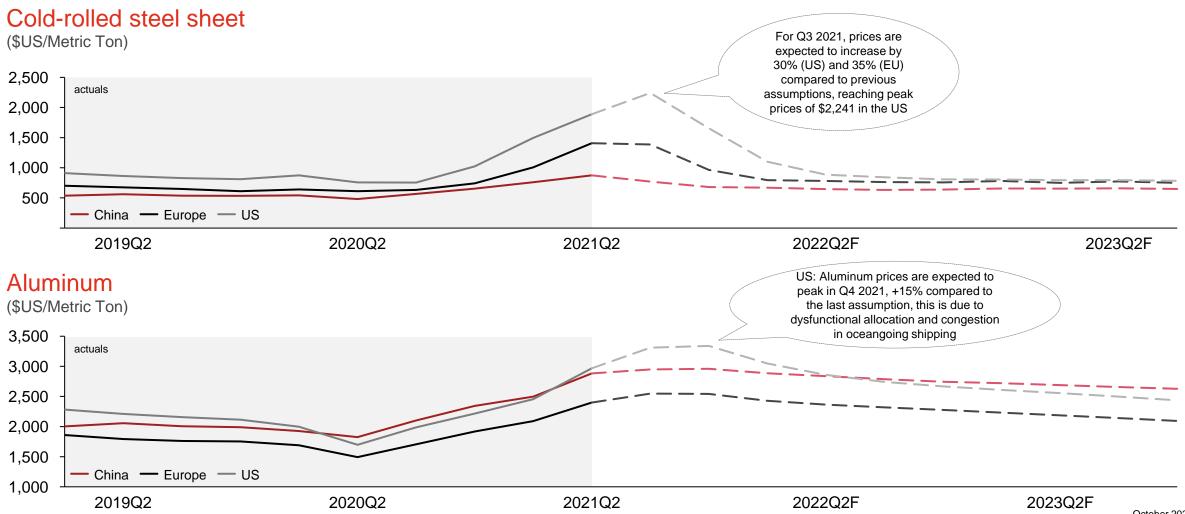
EU Top 5: Economic Sentiment Indicator

Sept. 2018 - Sept. 2021 (balance, percentage)



Current Impact: Key Commodity Prices

Automotive steel and aluminum spot prices move towards record highs - albeit conditions on the supply side of markets could improve rapidly

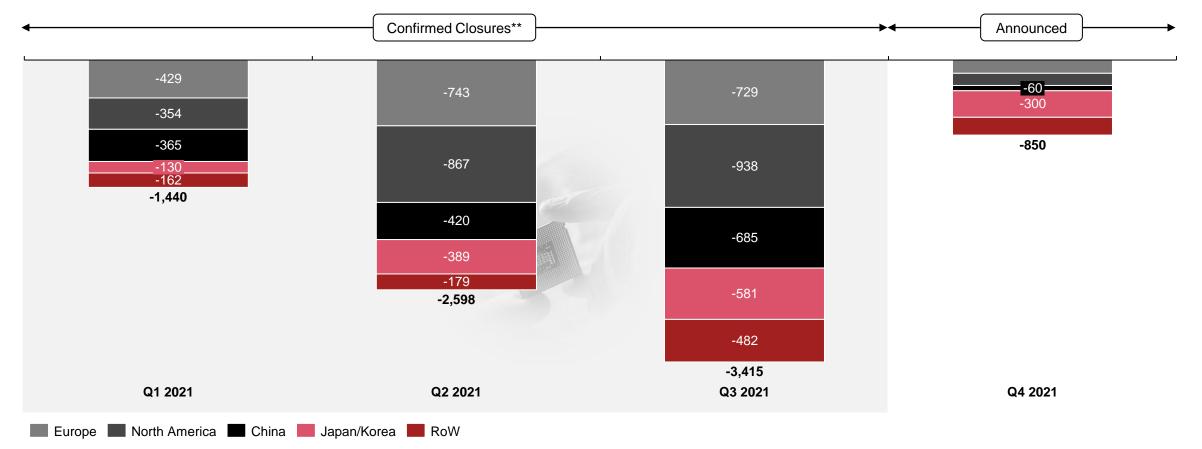


Current Impact: Semiconductor Shortage

Confirmed and expected volume losses due to the global ICU microchip shortage range between 9.5 – 11.0 million units for the full year 2021

LV*: Impact of ICU semiconductor volume losses

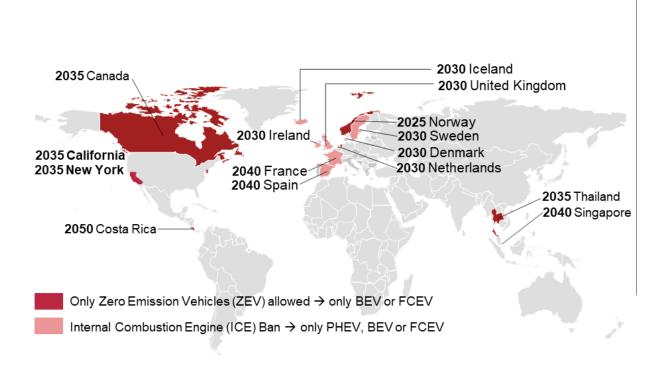
(In thousand units, Global)



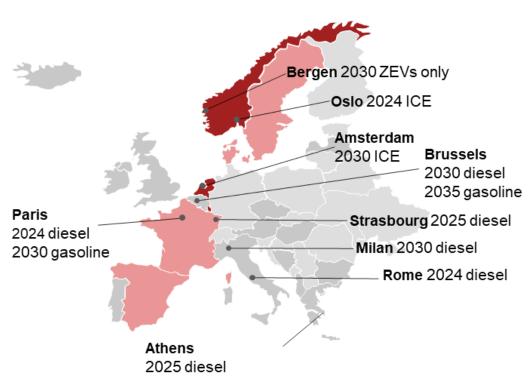
Upcoming Impact: ICE Bans

More and more countries are committing to sustainability goals and plan to ban ICE powertrains

Planned ICE - Registration Bans and ZEV only allowances around the world*



Selected European Cities which planned an ICE - vehicle phase out



Upcoming Impact: End of ICE

Some OEMs have ambitious goals for "Fit for 55" and plan to stop ICE sales faster than required

Key Insights

The EU Commission has recently presented the "Fit for 55" – program, proposing only Zero-Emission-Vehicles sales as of 2035. Some countries have already set ICE-Bans or ZEV only sales deadlines in advance of this proposal.

Most OEMs have committed to company-wide carbon neutrality by 2050. Many also already announced a concrete share of electrified vehicles by 2030, ranging from 40 to 100%.

Daimler recently announced a shift from electric only to electric first, aiming for carbon neutrality in 2039 and 100% electrified sales in 2030, where market conditions allow.

Number of BEV Models produced in Europe for 2021

Brand*	BEV Models	Total Models
VW	3	20
MB	7	25
Peugeot	4	12
Audi	5	20
BMW	3	18

^{*}Sorted by top 5 brands in Europe

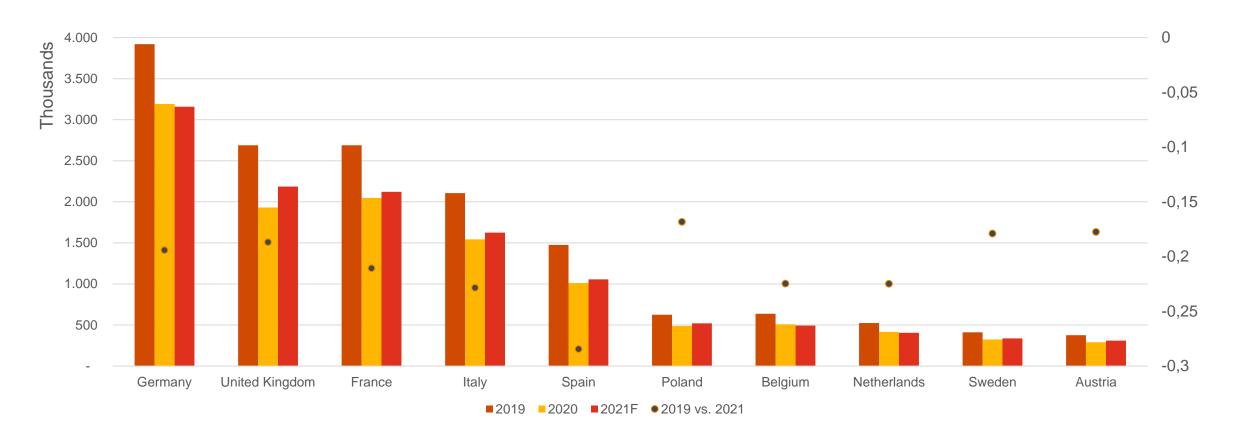
Phase out targets of ICEs* in Europe announced by OEM

2020	2025	2030	2035
smårt	DS AUTOMOBILES JAGUAR	MINI ROLLS R	** CANDER SINGLE PROVER

2021 sales are well below 2019 and in some cases even below 2020. Results range from -16% to -28% between 2019 and 2021.

EU+EFTA – New Car Registrations by Top 10 Markets

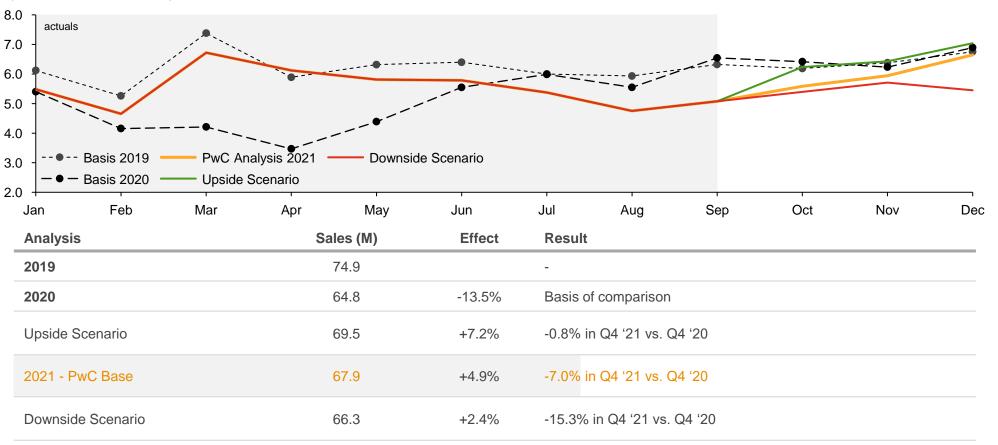
2019 - 2021F (millions)

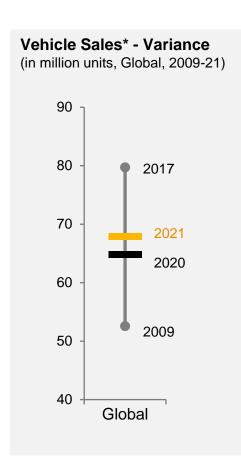


The ongoing ICU shortage, expensive commodities and a possible fourth wave of COVID infections put a strain on global auto demand in 2021

Passenger Vehicle Sales*: Scenarios for 2021

(in million units, Global)





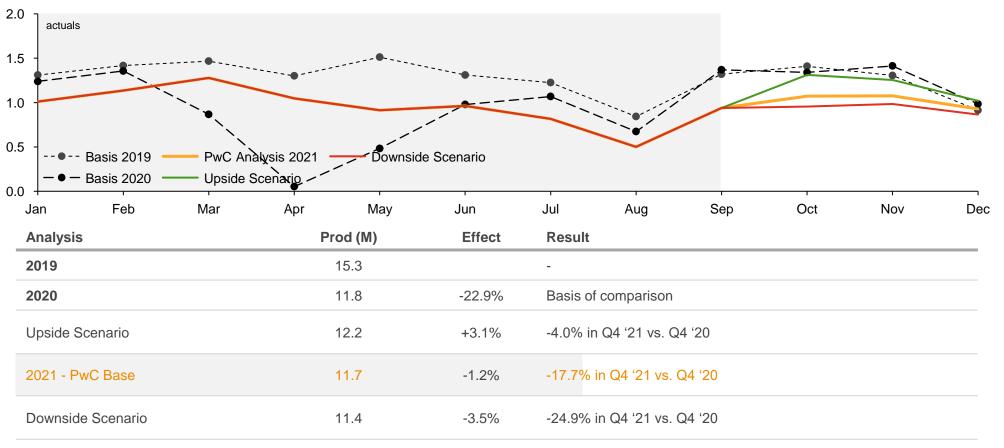
^{*}Passenger Vehicles = Passenger Cars, in NA LV w/o heavy pickups, commercial vans

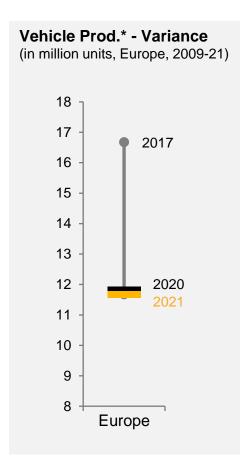
Focus Europe: Production

Supply chain issues remain highly unpredictable and are currently the strongest downside risk for production

PV Production*: Scenarios for 2021

(in million units, Europe**)



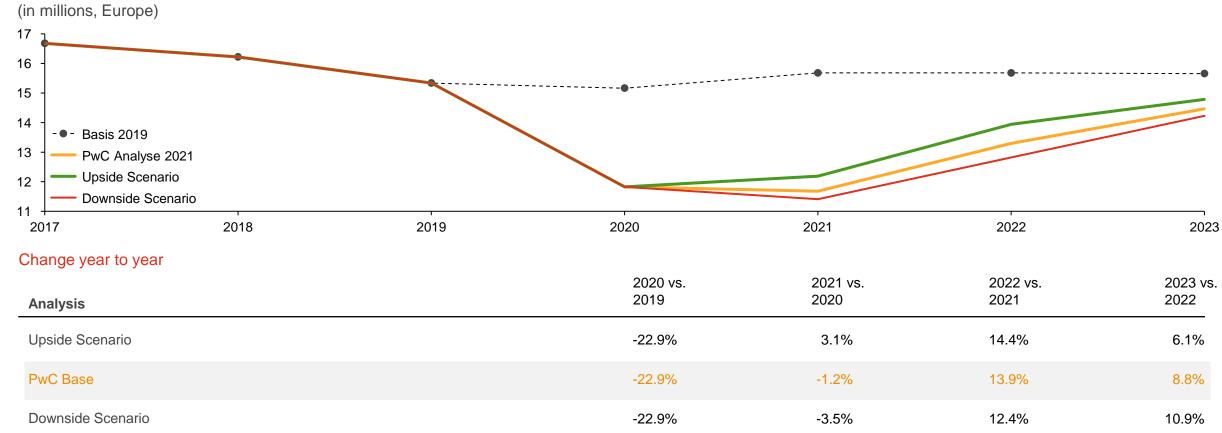


^{*}Vehicle Production = passenger car according to M1-classification ** - Europe = EU + UK + EFTA

Medium-term Production Europe**

Production remains below the 2019 basis due to supply issues and factories shifting to BEV production

PV Production*: Scenarios until 2023



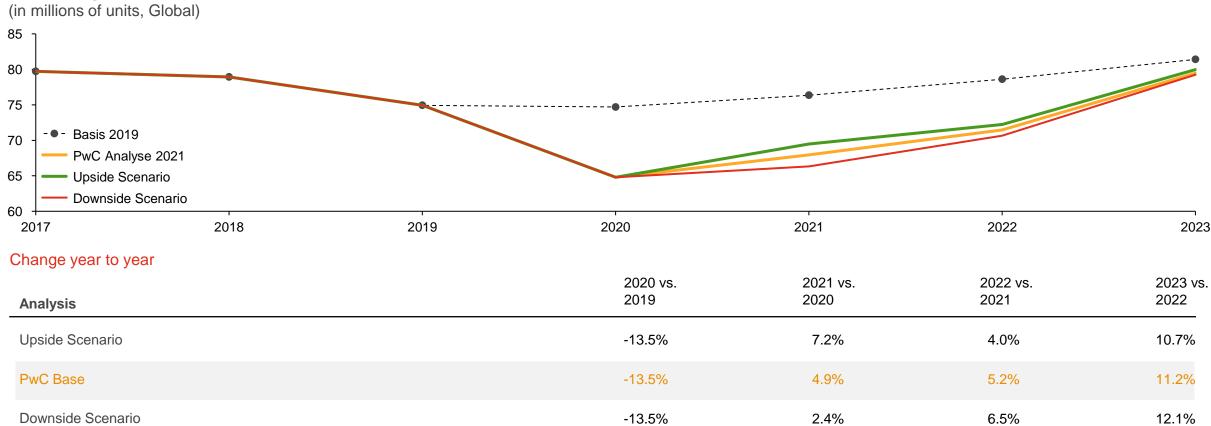
^{*}Vehicle Production = In the US incl. Light trucks, without Light Commercial Vans

^{** -} modelled countries: Germany, UK, France, Spain, Italy

Medium-term Sales Global**

PwC top-down scenario modelling points to a gradual global recovery but short of 2019 expectations

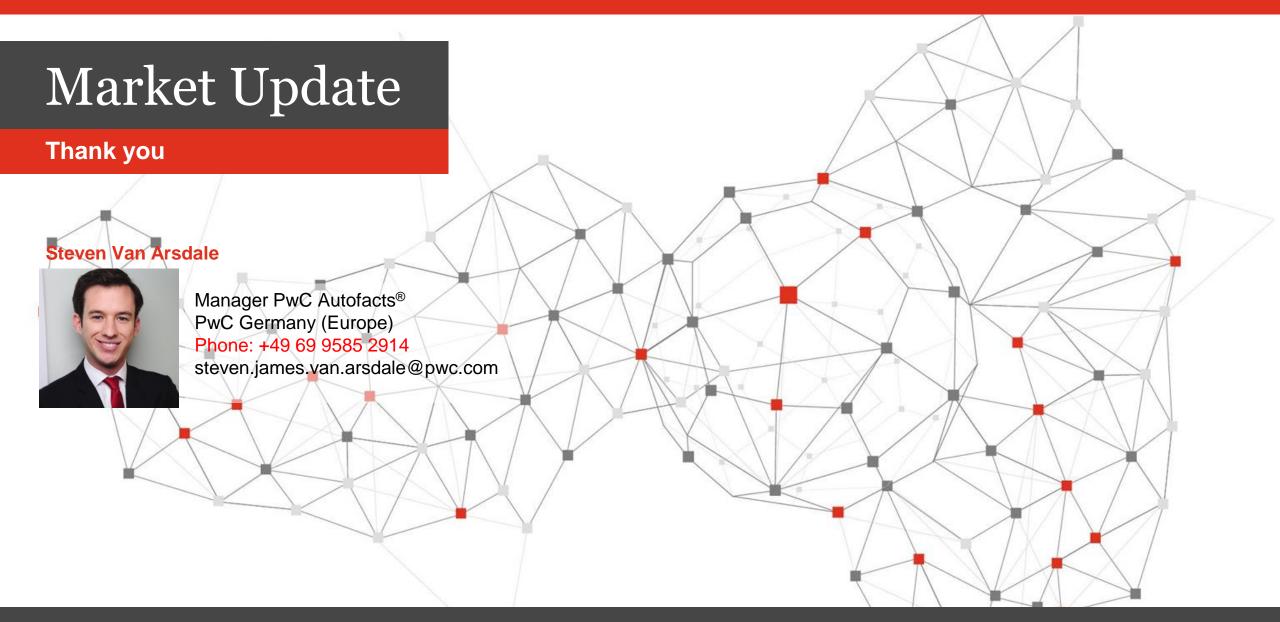
Passenger Vehicle Sales*: Scenarios until 2023



October 2021

^{* -} Passenger Vehicles = Passenger Cars, in NA LV w/o heavy pickups, commercial vans

^{** -} modelled countries: China, USA, Germany, UK, France, Spain, Italy, Turkey





More resources: www.pwc.com