



AUTOMOTIVE



PRODUCTION SUSTAINABILITY

The automotive industry continues to experience unprecedented disruption even more so now with vehicle electrification growing at exponential rates. Decarbonization is driving the adoption of Electric Vehicles (EV), Hydrogen, and fuel efficiency technologies. In this infographic, we'll explore how energy demands are driving auto makers to new levels of efficiency.



FINDING BALANCE

To accelerate the future of energy, manufacturing & digital plants must optimize their utilities while still maintaining production levels.



DECARBONIZATION

Today, automotive manufacturers are increasingly being expected to disclose their climate-related risks, including full-scope carbon emissions. Tomorrow, they will be expected to demonstrate action toward decarbonization.

\$250 BILLION
TO BE INVESTED
IN THE NEXT
5 YEARS
IN EV

UTILITIES COSTS

With costs on the rise, auto manufacturers must measure utilization of materials, the generation of waste, and consumption of utilities.



USA

As of 2025, CAFE' regulations in the US will require light vehicles to achieve 54.5 miles per gallon.

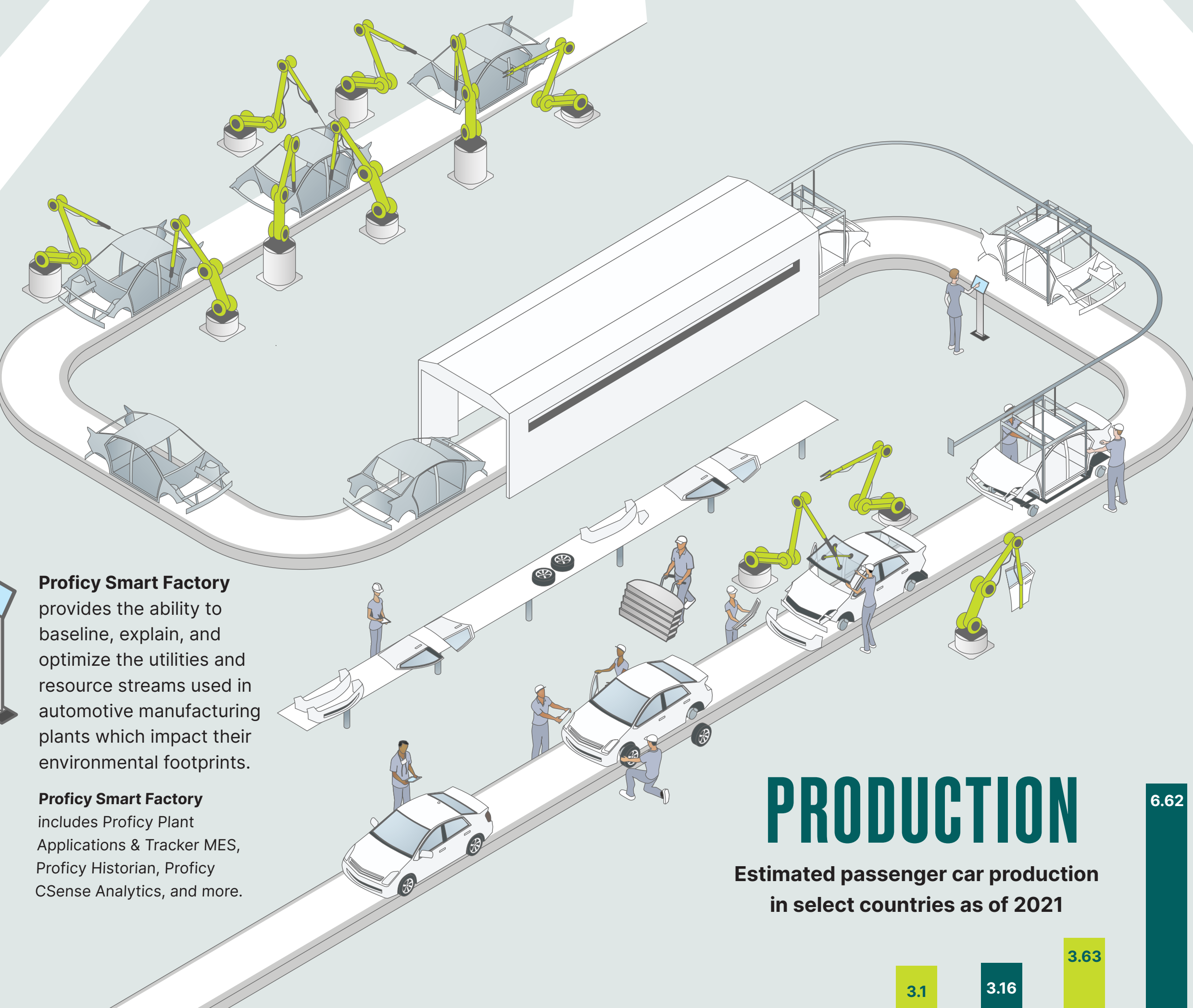
5x

Future investments in EV are expected to be 5-10x current announcements



EUROPE

By 2035 car makers must achieve a 100% cut in CO2 emissions from new cars sold.

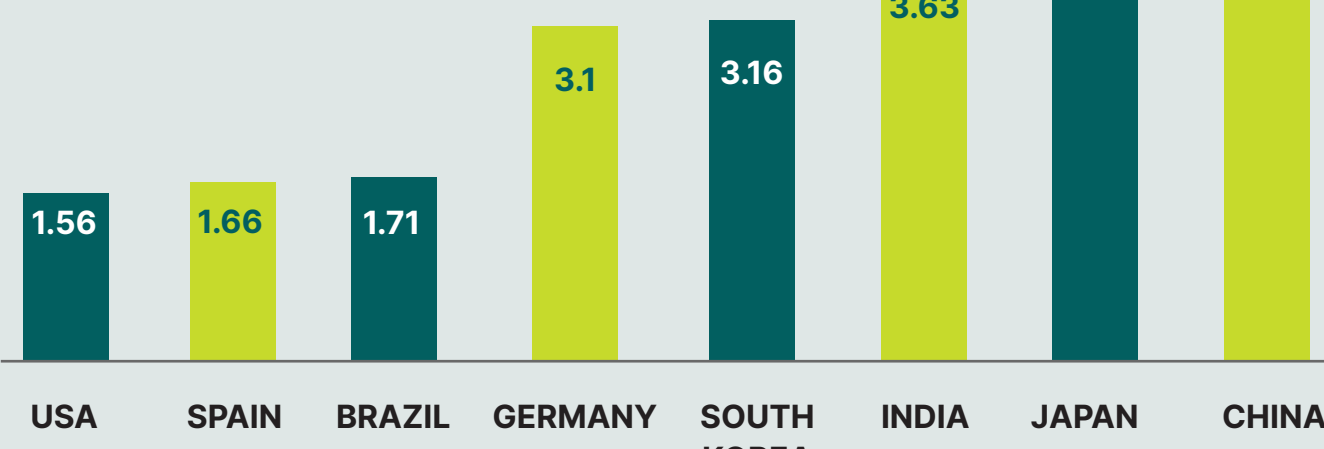


Proficy Smart Factory provides the ability to baseline, explain, and optimize the utilities and resource streams used in automotive manufacturing plants which impact their environmental footprints.

Proficy Smart Factory includes Proficy Plant Applications & Tracker MES, Proficy Historian, Proficy CSense Analytics, and more.

PRODUCTION

Estimated passenger car production in select countries as of 2021



A UNIQUE APPROACH

Only GE Digital has powerful data management, analytics, and visualization capabilities, which enable auto makers to stay competitive by **operationalizing their sustainability agendas, driving lower costs and mitigating risk exposure.**

BENCHMARK

Determine real-time performance vs expected/normal while setting up targeted alerts and anticipated resource usage.

EXPLAIN

Using analytics, correlate operational data to identify possible issues and improvement opportunities.

OPTIMIZE

Empower engineers to configure and deploy rules to maximize efficiency and utilities consumption.

There is a symbiotic relationship between **cost & profit and sustainability**. These 2 goals/agendas are not mutually exclusive, and you can achieve both objectives simultaneously leveraging the Proficy Smart Factory Portfolio.

A PROVEN TRACK RECORD

20%

Customers have reduced energy consumption by 20% in four years

75%

Customers have reduced production material waste by 75%

8

8 of the top global automotive OEMs are using GE Proficy software

Digital at GE Vernova



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