



Better Business through Systems Engineering

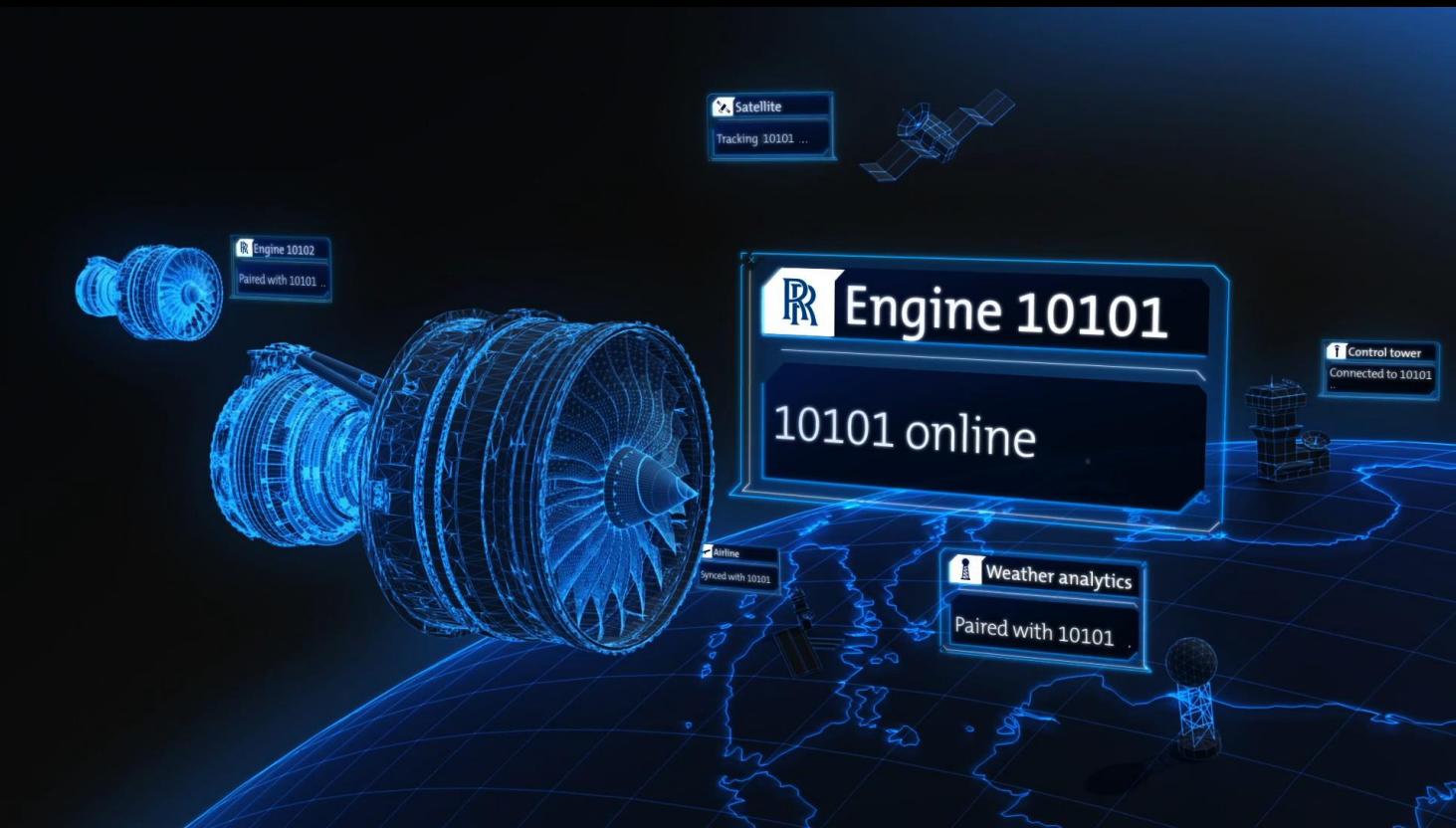
Phil Burkholder

President – Defense Programs

17 Oct 18



Pioneering the Power that Matters



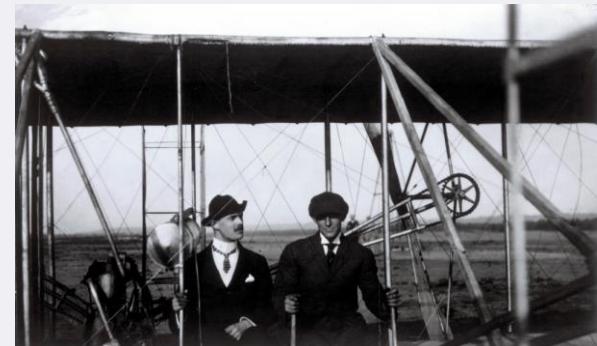


A long history in aviation

...and we no
longer make
cars



Charles Rolls with the
Wright Brothers



Charles Wilbur
Rolls Wright



Revenue
totaling
\$21bn
in 2017

50,000
employees

Rolls-Royce – Our Businesses

Civil Aerospace



Defense



Power Systems





Rolls-Royce Defense

- In the air
- Vertical lift
- On the sea
- Under the sea





Wide range
of Naval
equipment
supplied to
the USN and
beyond

Rolls-Royce Naval





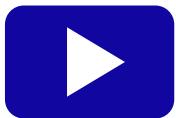
Requirements
capture and
management

Understanding the mission





F-35B Systems Engineering - Required





Model Based System Engineering

What's the
same?

What's
different?

Why does it
matter?

Software dominated systems

Physical dominated systems





Precision vs
accuracy

Internal rate
of return

Net present
value

What really matters?





Fantastic Indiana Partnership



- College of Engineering System of Systems
- Aeronautics & Astronautics Aerospace Systems
- Systems Engineering Education
- Purdue Systems Collaboratory



Leadership and System Engineering

Leading:

- Your team
- Your boss
- Company culture





What will you create?

Human
factors

John Farley
legacy

Your legacy



Questions

