WHAT DO THESE HAVE IN COMMON:
• ALL OF THEM HAVE A **GEARBOX** IN THEIR POWER TRAIN:

The ultracompact Kawasaki-made planetary gear used in the new **Pratt & Whitney** PurePower PW1500G Geared Turbofan Jet engines. Gear efficiency > 99%.

**Rolls Royce** are now following in the footsteps of Pratt & Whitney.

**20 % less fuel, and 75 % less noise – by introducing the gearbox!**

**BOSCH** electric car power train

**Tesla Motors** geared power train.

The asynchronous motor runs up to 20,000 rpm at full speed.
The new jet technology, the gearbox is item 2.

STADT Lean Propulsion. A typical gearbox in green colour.
And the reason is here:

A motor that runs on a high RPM, is much more compact than a slow speed version. The 3000 kW 1500 rpm motor has the same size and weight as a 300 kW 150 rpm motor! - RPM matters, a lot

This leads to solutions that incorporates a gearbox, to increase performance and reduce size, weight, noise, and costs.
Bigger propeller, at low revolution, gives high efficiency – using a gearbox

FUEL SAVING:
Proven - 30 to 40 %
In fact, there is a gearbox in every car, airplain, bicycle, drilling machine, in the heavy industries, and ships.

The gearbox will play a vitale role to make transportation in general more efficient, generating less noise, and reducing space and weight, in years to come. Just look to the leaders for these industries.
STADT LEAN ELECTRIC PROPULSION, USING GEARBOX, AND C.P. TYPE OF PROPELLERS
LEAN PROPULSION

+ SAFETY & RELIABILITY
+ VERY LONG LIFETIME
+ COST EFFICIENCY

+ STEALTH & HSE
+ MORE CARGO CAPACITY
+ LESS EMISSION AND FUEL

SIMPlicity IS THE ULTIMATE SOPHISTICATHion
- LEONARDO DA VINCI

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