

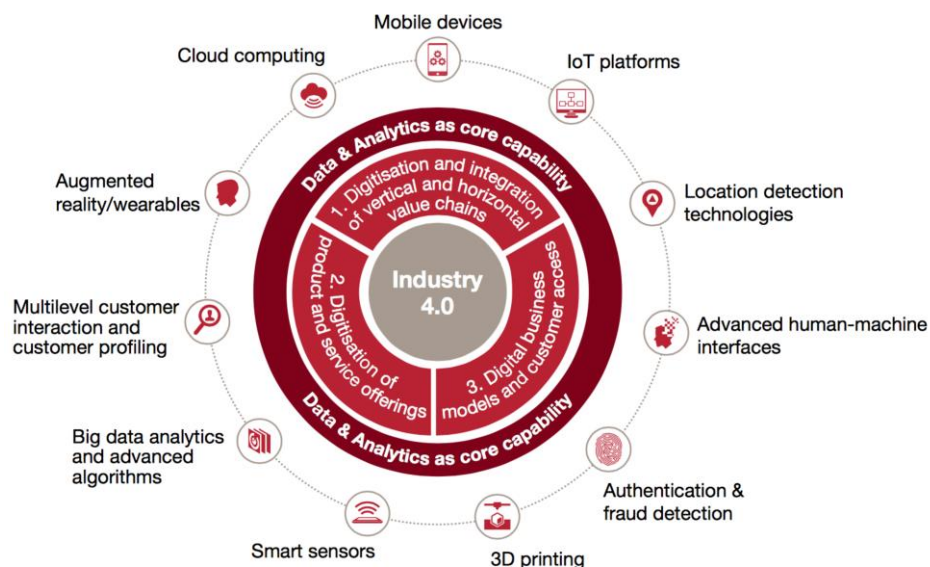
## ***Frederic Beghain***

### ***How EASA members (System integrators) are already working on the next industrial revolution, the Industry 4.0***

Motors are considered by many to be one of the best cross-cutting technologies in the industry, one of the best indicator to understand what's happening around motors and to improve general operational performances and results of various industries.

Many end users do not anymore maintain their motor systems, they outsource them with sometime long term performance based agreements to some service companies in the world.

#### ***Industry 4.0 framework and contributing digital technologies***



#### **PWC Model – 2016 Global Industry 4.0 Survey**

“There is a dramatic shift in recognizing where our future assets lie. In the past, it was heavily invested in physical ownership, the knowledge was kept within organizations and this ‘became the competitive advantage. Today that is rapidly disappearing, the knowledge is recognized to lay mostly outside the organization, it is the ‘connected minds’ across multiple stakeholders, that participate through and across new platforms and ecosystems and how these are leveraged and managed is where are looking to gain any new competitive advantage” (1)

The electro mechanical service industry is already developing and adjusting its business models along with the development of maintenance philosophies and customer needs. Maintenance philosophies have changed especially in the

last 50 years from run to failure, to Preventive Maintenance (Systematic maintenance), to condition based and to now to predictive maintenance with IOT and Artificial Intelligence.

Predictive maintenance is a big game changer and requires new skills. Earlier repair shops had mechanics and winders, and now to fulfil the new needs some of them already works with IT engineers, mathematicians and/or data scientists.

EASA ([www.easa.com](http://www.easa.com)), the largest professional association in the world dedicated to companies who are servicing rotating machine systems life cycle performances, is already working on Industry 4.0 with its members: workshops, seminars, conferences, industry researches and analysis, surveys, new committees, database, network, ...

OEM`s are investing heavily in this new technology that will influence the actual service business model. They are not the only ones, end users, independent service companies, suppliers are also investing in it, and success will be even even bigger if all stakeholders involved in motor life cycle performances better collaborate to also attract new investment, new projects, public funding, ...

(1) <https://ecosystems4innovating.wordpress.com/2016/11/09/the-emerging-industry-4-0-business-ecosystem/>)

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