
Technology Development Activities in Japanese Aerospace Industry



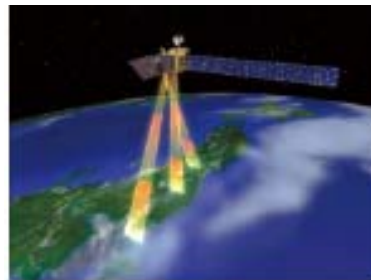
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1. Who is SJAC?

1. Established in 1952
 2. Manufacturing Industry Voice to Governments and overseas
 3. 140 member companies
- Major companies; MHI, KHI, FHI, IHI, Nabtesco, SPP, Shimazu, MELCO, Toshiba, NEC and etc.,



Major Activities

1. Industrial Policy Promotion



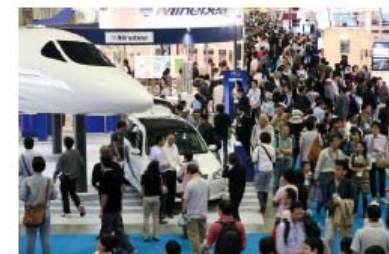
2. Industrial Foundation Buildup and Maintenance



3. Cooperation with Overseas Aerospace Organizations



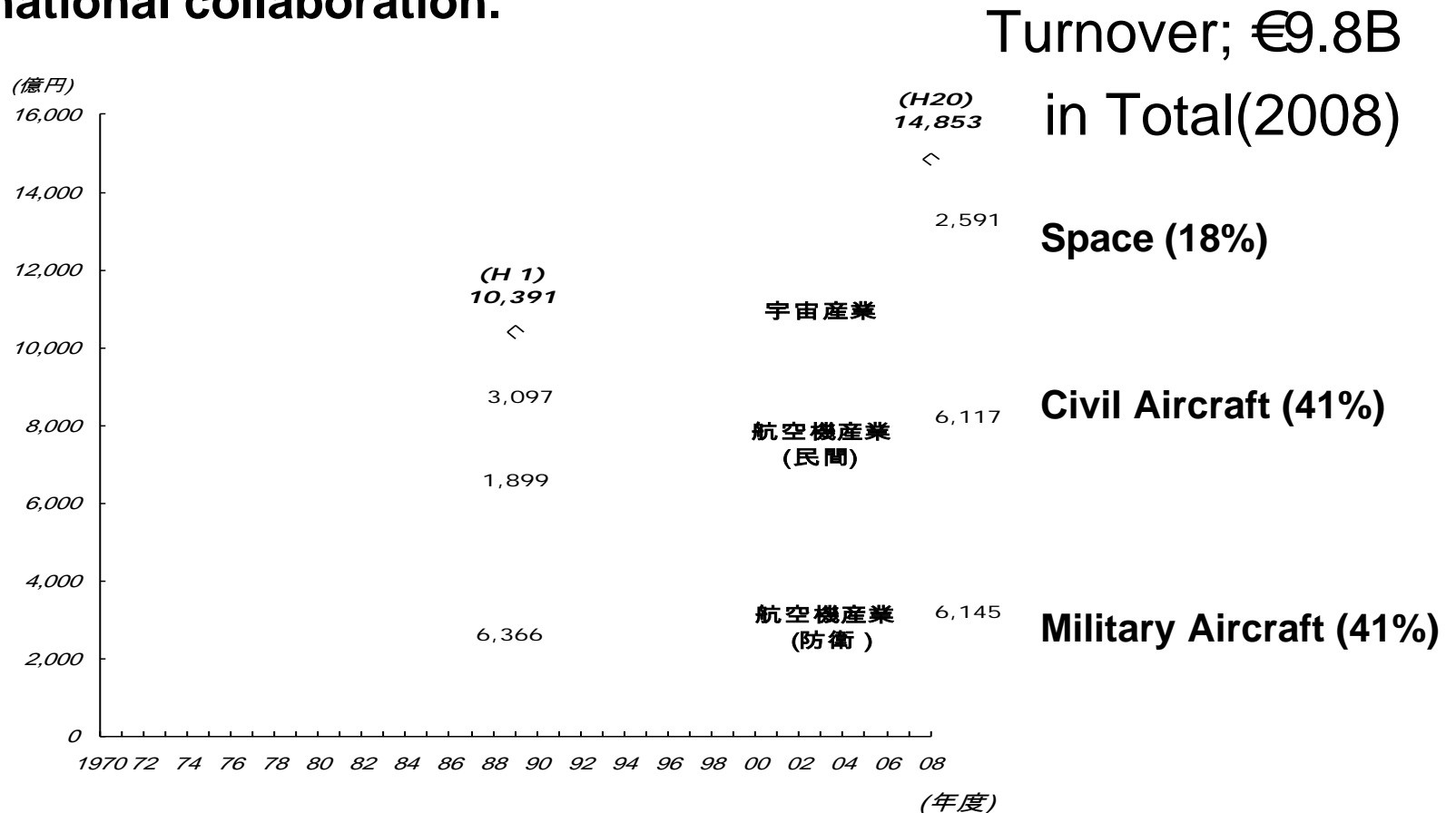
4. Japan International Aerospace Exhibition





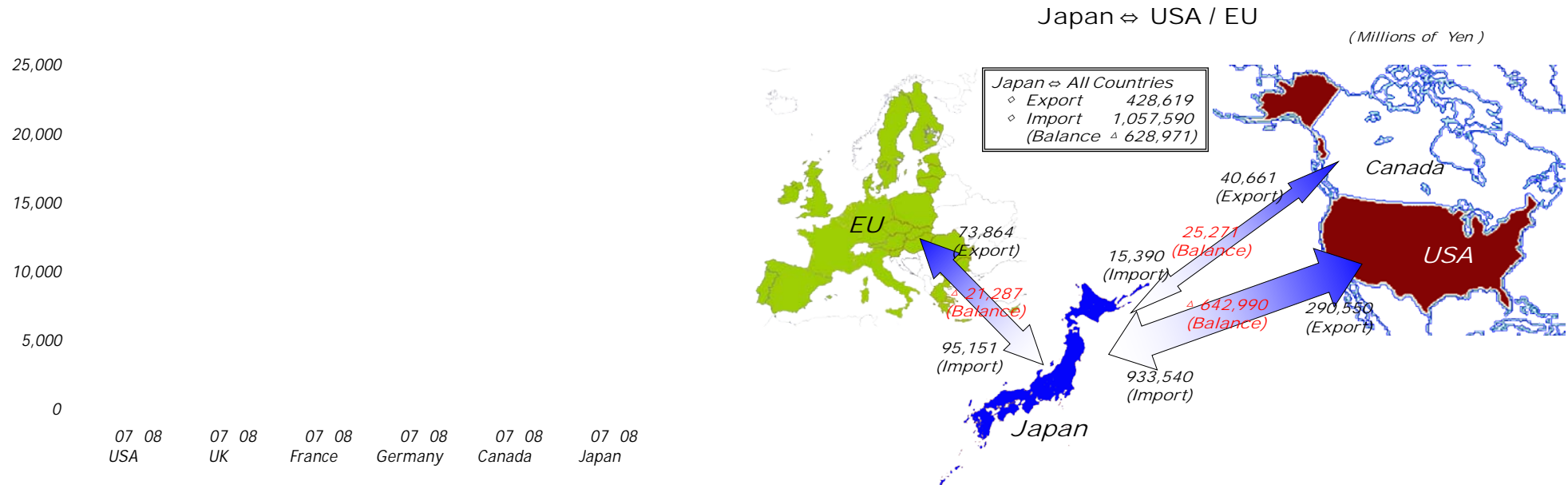
Status of Japanese Aerospace Industry

1. After 7 years blank period since WW II, it has been developed based upon military aircraft manufacturing.
2. Mid 90', civil aircraft output has expanded through international collaboration.



Status of Japanese Aerospace Industry

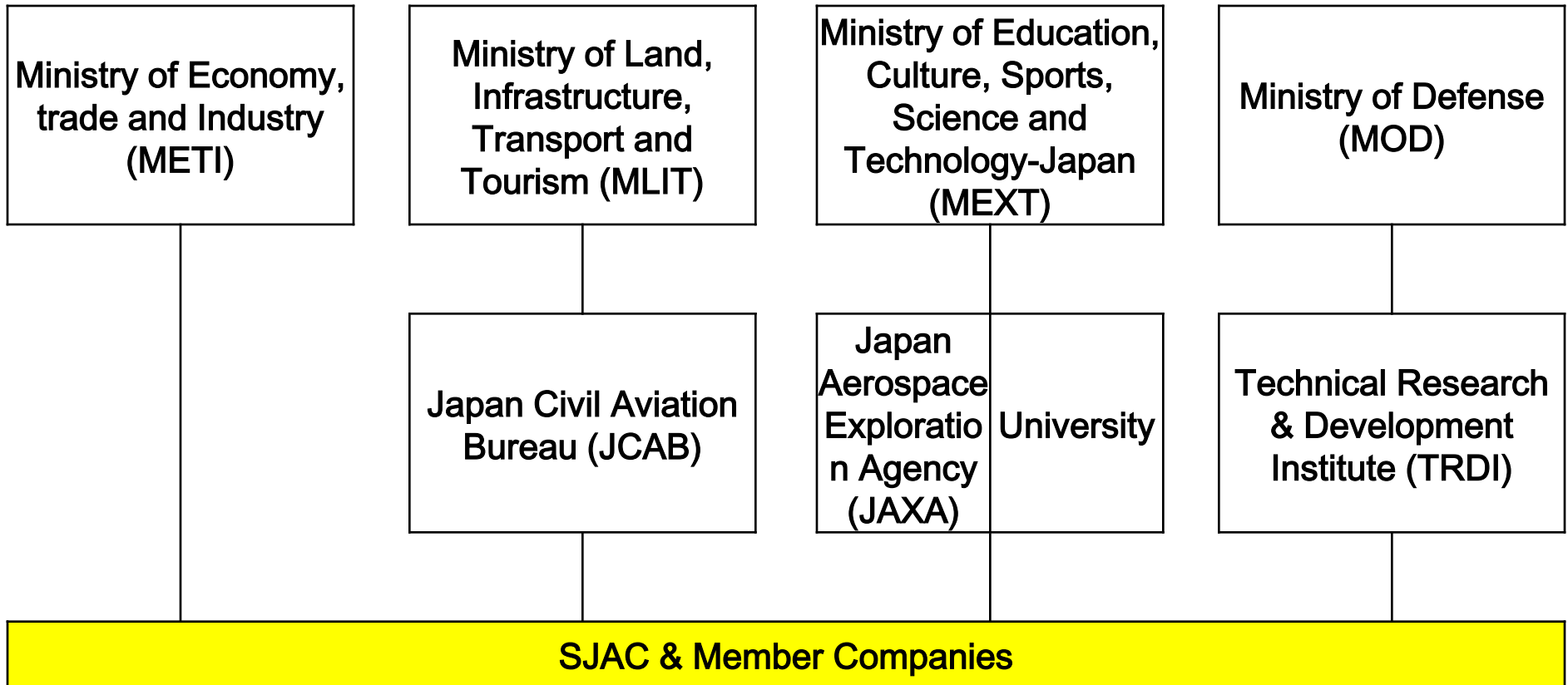
1. Japanese Turnover is 1/17 of US, 1/3 of France, UK, Germany.
2. Trade balance is deficit to EU, USA.



Major Products in Japan



2. Japanese Government





3. Japanese Strategy

1. Solution offer through Indigenous Aircraft
 - (1) MRJ
 - (2) Conversion from Military to Civil application
2. Leading runner for the civil aircraft development
3. High Value Added industry

3.1 Solution offer through Indigenous Aircraft

(1) MRJ

70-90 Seater

Schedule

2008 Launch

2010 First Metal Cut

2012 First Flight

2013 First Delivery



(2) Conversion from Military to Civil application



Fire Fighting



Civil Cargo





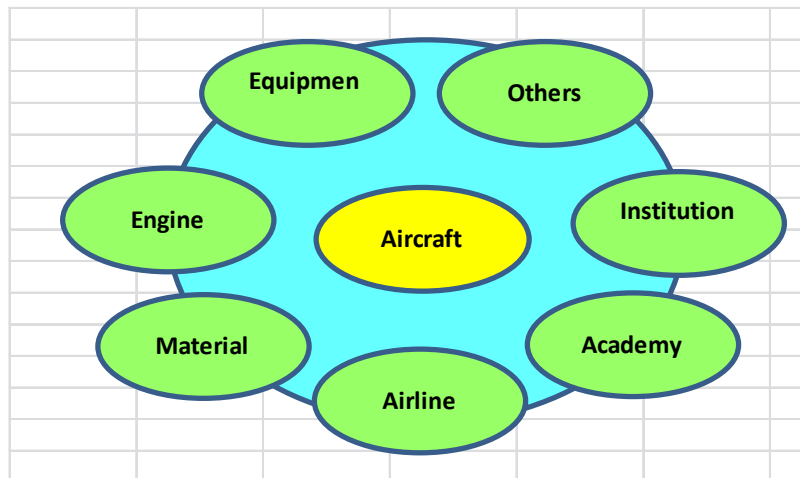
3.2 Leading runner for the civil aircraft development

(1) Total Solution

Material > Forming > Sub Ass'y > Final Ass'y > Operation Support



(2) Industry-Academy- Government cooperation



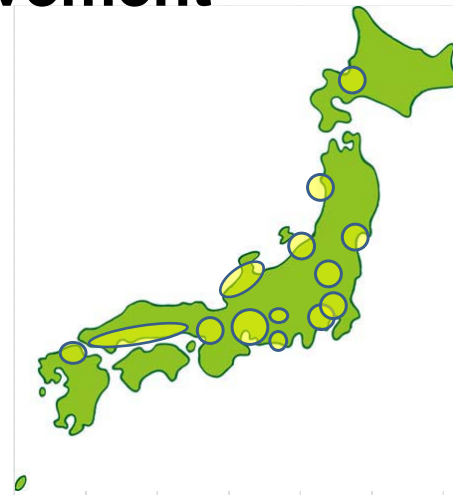
3.3 High Value Added Industry

(1) Introduction of new technologies from Other Industries

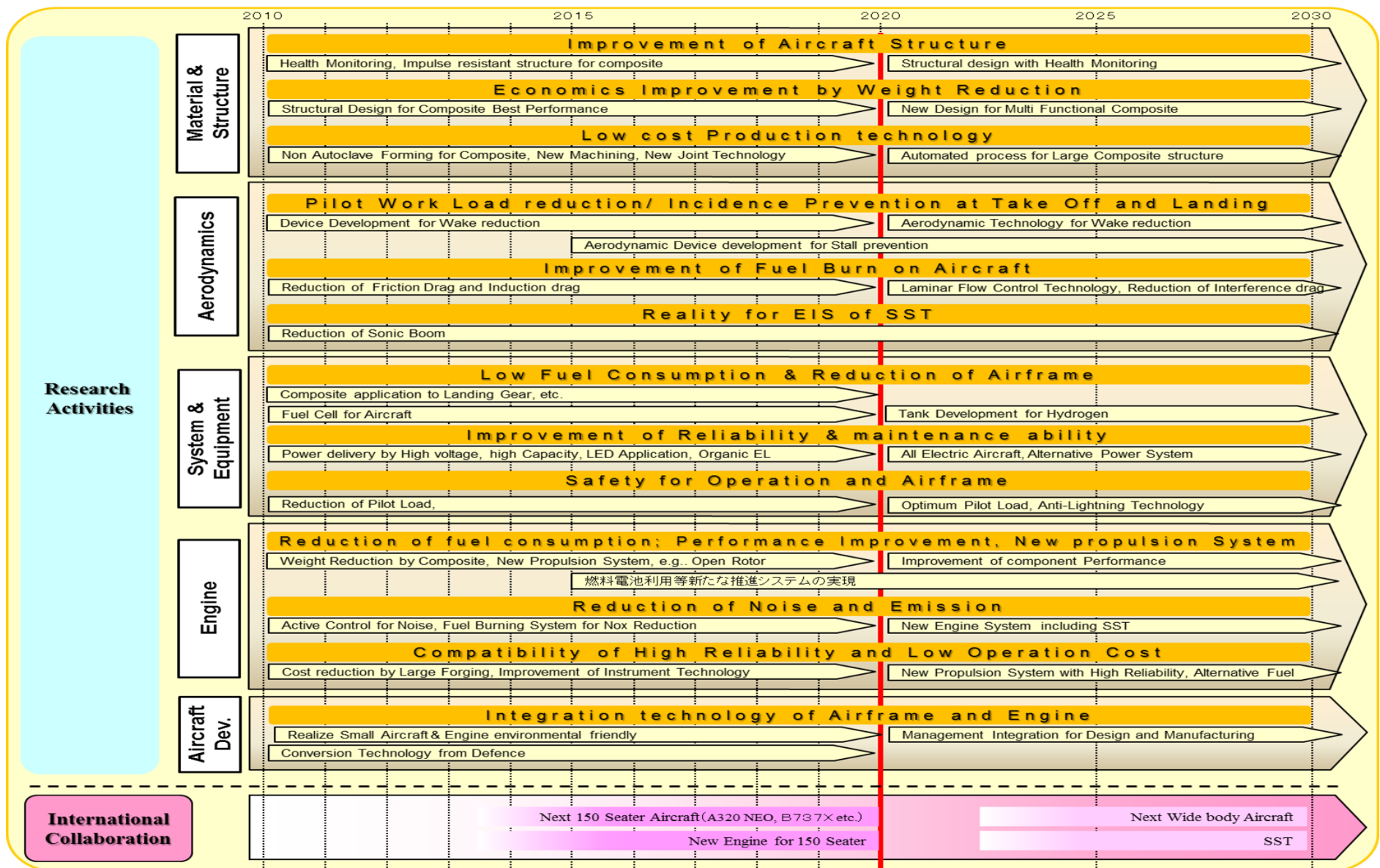
Example : Fuel Cell
2017 Flight Test



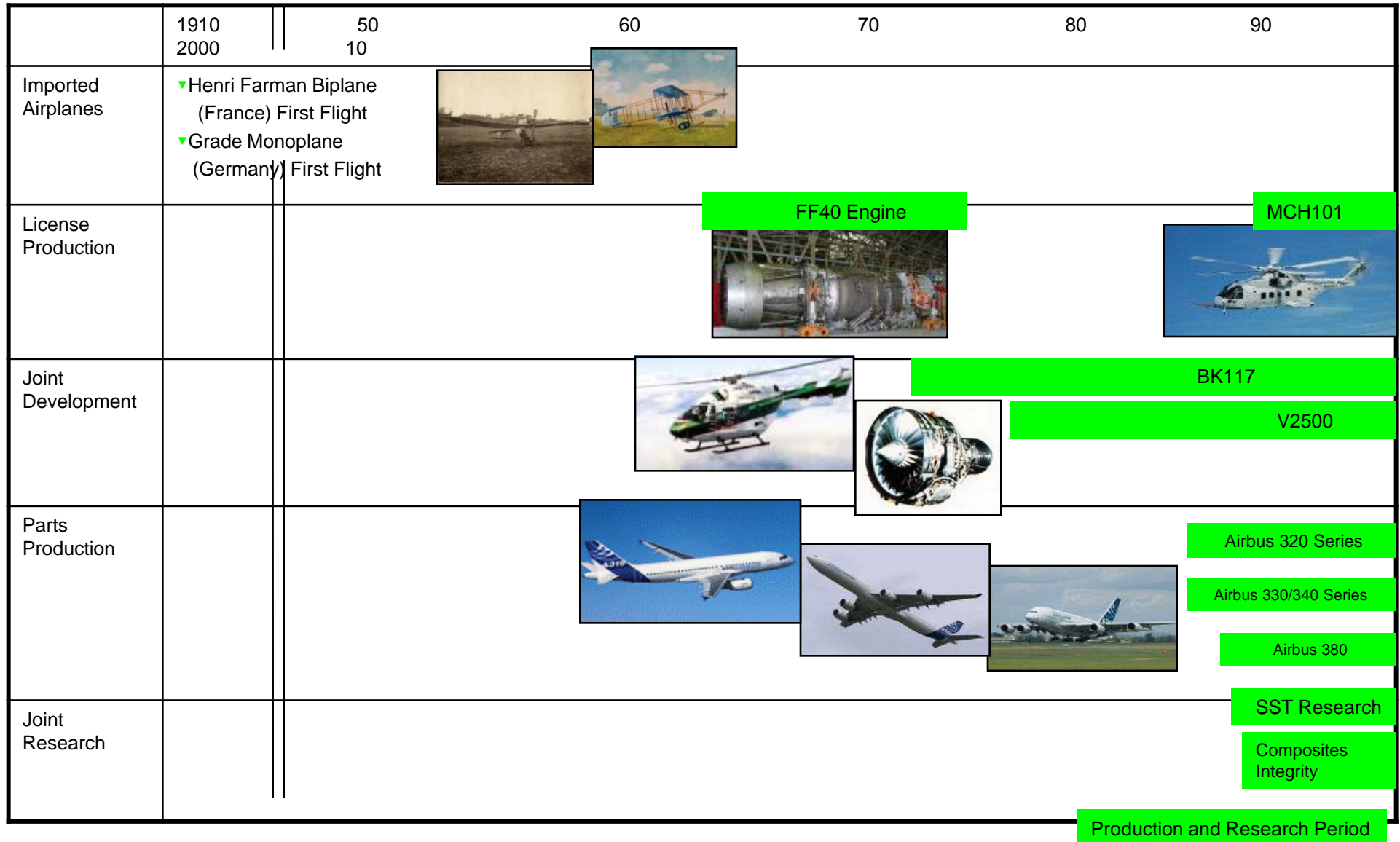
(2) Support for SMEs Involvement **14 regional sectors** from Automotive to Aerospace



4. Road map for Technology Development



5. Cooperation between Europe and Japan



6. Conclusions

1. Japan has a long history with European aeronautics industries.
2. SJAC wish to continue and enhance these good relation ship through several programs including European Framework Program of FP7.