

J A X A ' s A c t i v i t i e s
f o r
S p i n - o f f

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Japan Aerospace Exploration Agency

I n d u s t r i a l C o l l a b o r a t i o n

D e p a r t m e n t

What is JAXA ?

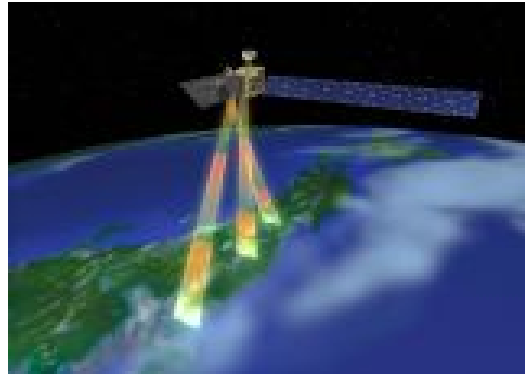


JAXA is an agency involved in for research and development for aerospace in Japan, development of rockets, utilization of the outer space environment, orbiting satellites and their effective utilization, improvement in the reliability of air transport, the establishment of fundamental technology and the space sciences

Rockets



Orbiting Satellites



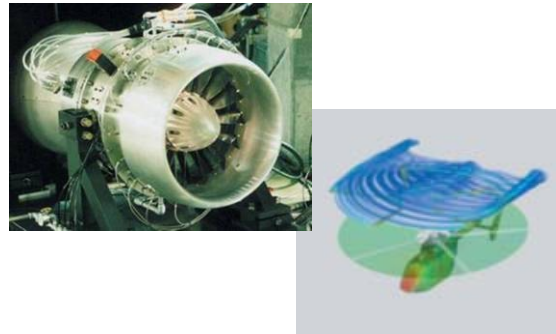
International Space Station



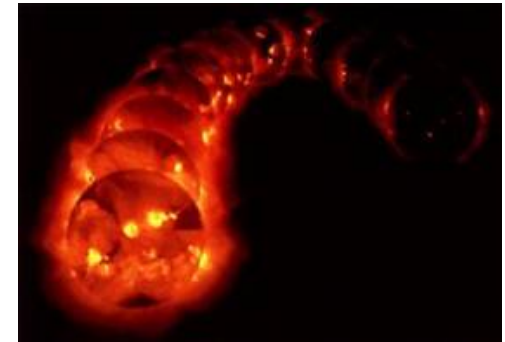
Airplane



Fundamental Technology



Space Sciences



Objective of JAXA IP application

Carry out projects of aerospace, basic R&Ds, academic researchs

Commercialization of JAXA's IPs

Creation

Increase of IP quantity

Improvement of IP qualities

Generate of
valuable IP

Promotion
of
Licensing

Increase of licensing quantity

Improvement of licensing quality

Reinforcement of
industrial
competitiveness
based on JAXA's IP

Activities for promotion of licensing

Enrichment of IP

- increasing of quantity
- improvement of qualities

Application of Specialist

Proposal business activities based on industrial needs

Business-Academia collaboration coordinator

Dr. Yoshino

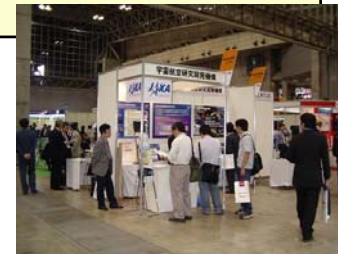


Promotion of IP's aiming to industrial application

- Support for creating manufacturing
- *fundamental support
- *technical advise
- Collaboration Research

Propagation Activities

- *Exhibit at Technology Fares /Events
- *Seminar at regional area
- *Notification through HP



Product and Increase of Spin-off Results

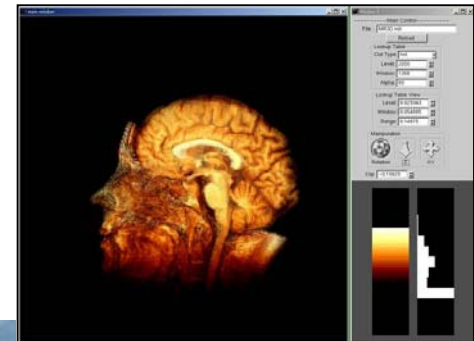
Contribution to Reinforcement of industrial competitiveness based on JAXA's IP

Promote Technology Transfer "SPIN-OFF"

JAXA has made effort to increase a number of the intellectual property and to promote transfer of the space-born technology to the non-space field as Spin Off, which would change our life and society.

A lot of Japanese Space Spin-Offs have been born in the various fields.

- Life
- Environmental improvement
- Medical welfare
- Social infrastructure



Example of Spin-Off

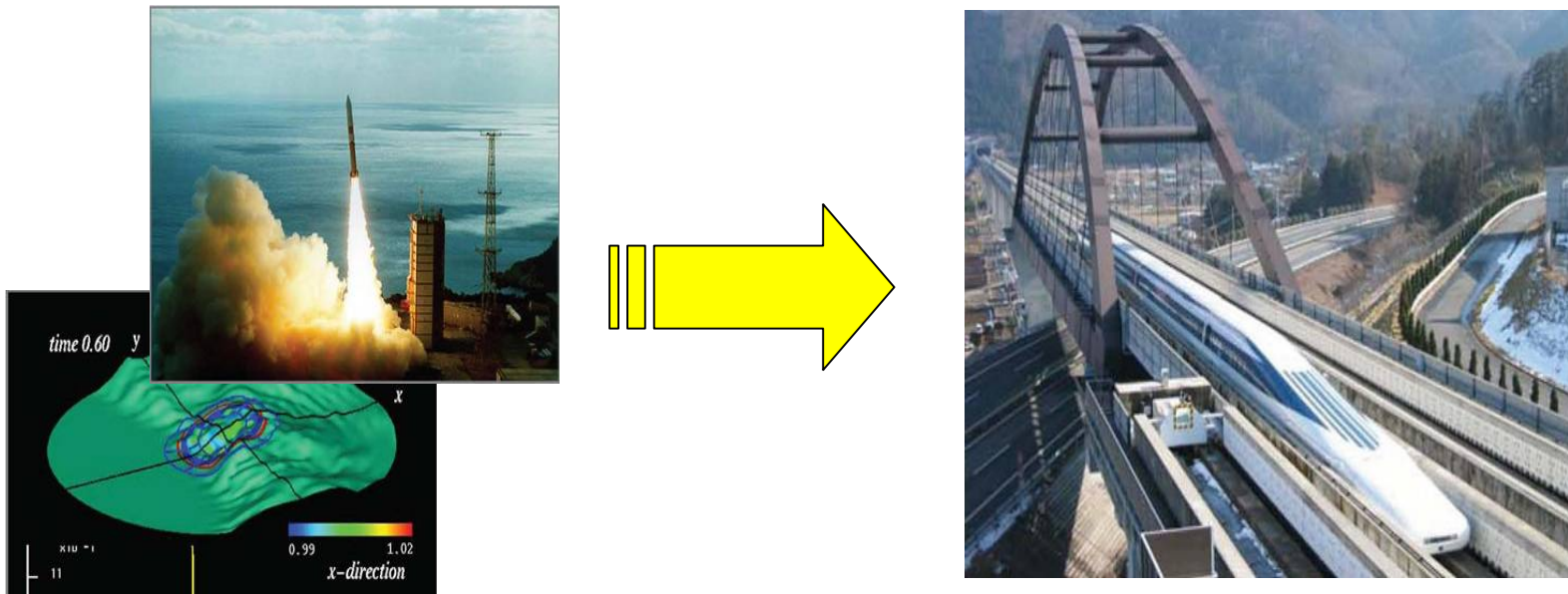
Thermal insulation material

The thermal insulation technology for the fairing of H-IIA Launch Vehicle have been applied as a spray type heat insulator for buildings.



Example of Spin-Off

Designing front carriages for high speed trains

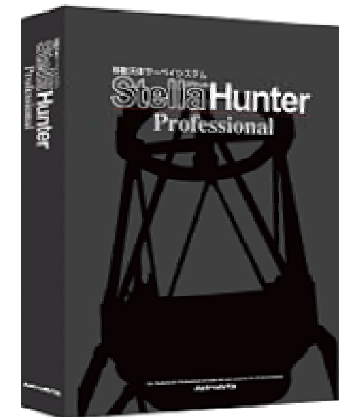


The technology of the blast wave simulation program at the lift-off of launch vehicle is going to be applied to the designing of front carriages for high-speed trains.

Example of Spin-Off



Technology for the detection of minute space debris
.An astronomical object detection software for
amateur astronomers



Technology of Stirling Engine
.Stirling Engine Kit as teaching materials



Thank you for your attention

Japan Aerospace Exploration Agency
Industrial Collaboration Department