



2. 北海道大樹町スペースポートでの商業運航

Suborbital Spaceplane “FuJin” 風神, “RaiJin” 雷神 and “NagaTomo” 長友 will be operated at the Spaceport of Hokkaido/ Taiki Town



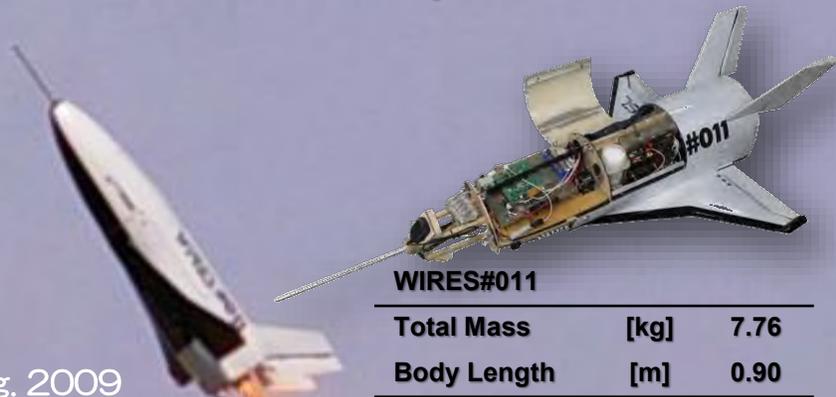
3. 世界と戦う革新技术の創出

Technology		Issues	Partner's Responsibility
1	Integration	<ul style="list-style-type: none"> Airframe/System Integration & GSE's, Operation 	SPACE WALKER
2	System Design*	<ul style="list-style-type: none"> System Optimization Methodologies (Vehicle/Propulsion System/Trajectory) 	 Tokyo University of Science SPACE WALKER
3	Fault Tolerance System	<ul style="list-style-type: none"> Manned/Unmanned Fault Tolerant System (NGC, Structure, Engine-Propulsion System, Mechanical & Electrical Equipment, Communication System) 	SPACE WALKER  Powering your potential  Realize your dreams     Toray Carbon Magic  Explore to Realize
4	LOX/LNG Engine*	<ul style="list-style-type: none"> Reusability (Reliability, Health Monitoring, Thrust Augmentation, Reignition), Clean Propellant 	 Realize your dreams  
5	Autonomous Flight System*	<ul style="list-style-type: none"> Failure Tolerant Navigation System Real-time Optimal Trajectory Generation and Guidance Adaptive Attitude Control Theory 	 Tokyo University of Science  Powering your potential
6	Composite Airframe & Propellant Tanks*	<ul style="list-style-type: none"> Complex Airframe Composite Molding LOX Compatible Composite Tank (CFRTP-PC) Super-pressure Composite Gas Tanks 	 Powering your potential  Toray Carbon Magic  Tokyo University of Science SPACE WALKER
7	Legalization	<ul style="list-style-type: none"> Public-private council led by Cabinet Office/ Ministry of Land, Infrastructure, Transport and Tourism 	SPACE WALKER  Explore to Realize

4. 小型有翼ロケット実験機 (WIRES*)による飛行実証

■ WIRES#11 & #014 (JAXA殿共同研究)

2008-2009



γ#5 Aug. 2009

WIRES#011

Total Mass	[kg]	7.76
Body Length	[m]	0.90



γ#1 Feb. 2008



γ#2 Dec. 2008



γ#3 Feb. 2009



γ#4 Jun. 2009

- WIRES: *Winged Reusable Experimental Sounding rocket*

2010~2020



WIRES#012

Total Mass	[kg]	34.3
Total Length	[m]	1.71

WIRES#014

Total Mass	[kg]	49.3
Total Length	[m]	1.71