



# Towards Defence Industry Cooperation between U.K. and Japan 日英防衛産業協力に向けて

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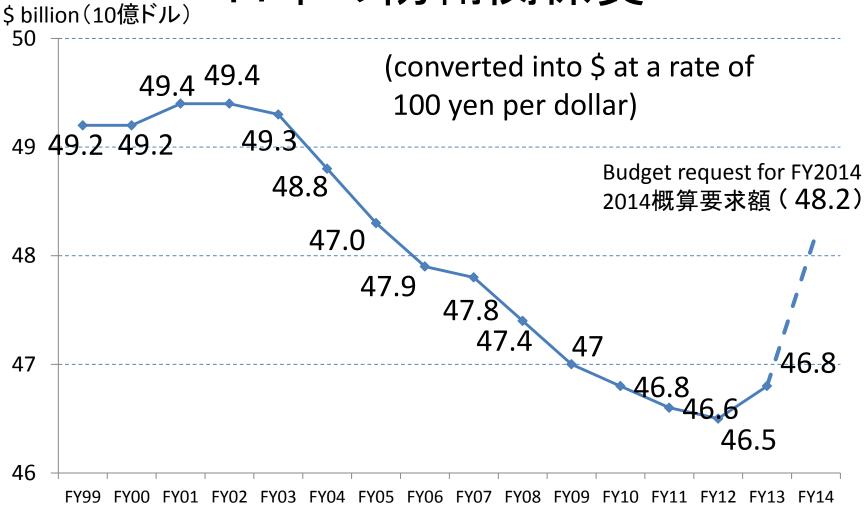
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# The current status of Japanese Defence Budget

日本の防衛予算の現状

## Defence-Related Expenditures of Japan 日本の防衛関係費



## Defence - Expenditures in 2011 2011年国防支出

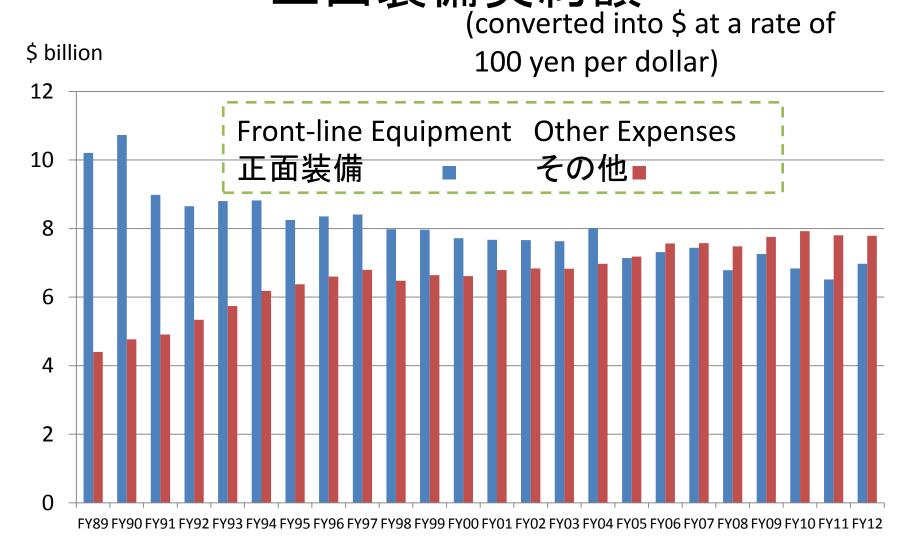


The dollar exchange rate uses purchasing power parity(OECD publication).

SOURCE: MOD website (http://www.mod.go.jp/e/index.html)

<sup>&</sup>quot;1 U.S. dollar=106.765082 yen=0.678797 pound=0.803298 euro(Germany)=0.865689 euro(France)=18.102078 ruble=4.173 yuan"

## Contract Amount of Front-line Equipment 正面装備契約額



## Japanese Defence Equipment and its Manufacturers

日本の防衛装備品・メーカ

## Japanese Major Defence Equipment主要装備品

#### **Equipment** types Indigenous Destroyer (Aegis system: FMS) **Development** & Production Patrol aircraft Cargo aircraft **Torpedo** 国産 Missile Trainer Main Battle Tank Jet Fighter VLS Licensed AIP System **Production** / Joint Missile development **BMD** & production **SM3** marine propulsion ライセンス生産・共 Helicopter module 同開発生産 **Import AWACS** Tanker 輸入 Missile **LCAC Trainer** Aircraft **Utility Aircraft**

Source; Defence of Japan 2013

## Japanese Major Defence Equipment主要装備品 (Indigenous Development & Production -1 国産-1)



Aegis Destroyer "Kongo"

Standard displacement; 7,250t

Speed; 30kt Length; 161m



Submarine "Soryu" Standard displacement;

2,950t

Speed; 20kt

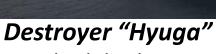
Length; 84m



*Type 10* Main Battle Tank

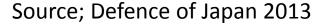
(Licensed production)

Weight; 44t, 4-stroke cycle V8 Diesel engine, Main armament; 120mm canon



Standard displacement; 13,950t

Speed; 30kt Length; 197m



### Japanese Major Defence Equipment 主要装備品 (Indigenous Development & Production -2 国産-2)



Type 88 Surface-to-Ship Missile



Type 03 Medium Range Surface-to-Air Missile



**Torpedo** 



P-1 Patrol Aircraft



**US-2** Amphibian Aircraft



### Japanese Major Defence Equipment 主要装備品 (Joint Development & Production 共同開発•生産)

JAPAN-U.S. Cooperative
Development of Advanced
Interceptors for BMD



F-2 Fighter;
JAPAN-U.S. Cooperative Development

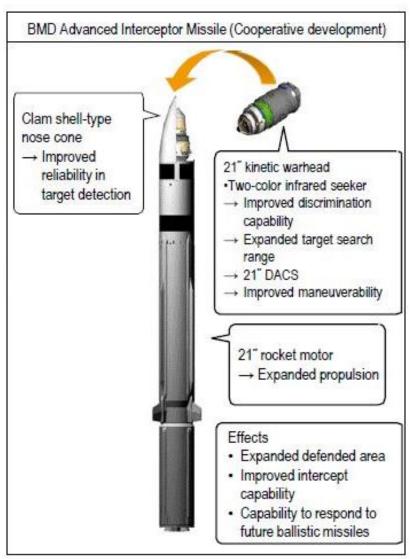
Max take-off weight; 22ton

Max Speed; Mach2

Length; 15.5m

Armament; 20 mm Gun, AAM-5  $\times$  4,

 $ASM-2 \times 4$ 



### Japanese defence manufactures防衛関係メーカ

	Manufacturer	Contracts	Contract value	Share	Main products
			(billions yen)	(%)	
1	Mitsubishi Heavy Industries三菱重工	233	289	19.6	Fighter Aircraft, Helicopter, Missile, Destroyer, Submarine, Tank, Torpedo
2	Kawasaki Heavy Industries川崎重工	140	210	14.3	Cargo Aircraft, Patrol Aircraft, Helicopter, Submarine, Missile
3	Mitsubishi Electric 三菱電機	121	115	7.8	Missile, Radar Set, Avionics
4	NEC日本電気	301	115	7.8	Multipurpose Radio Machine, Communication System
5	Fujitsu富士通	169	53	3.6	Information Communication System
6	Toshiba東芝	73	50	3.4	Missile, Avionics, Command & Control System
7	IHI	37	35	2.4	Aircraft Engines, Marine Propulsion System
8	Komatsu小松製作所	58	33	2.3	High-Explosive Projectile, Light Armored Vehicle, Shell
9	JX日鉱日石ェネルキー	143	27	1.8	Aircraft Fuel
10	Hitachi日立製作所	88	26	1.7	Information Processing Device, Underwater Mine Detector, Avionics

Strength of Japanese and European Defence Industry, Issues of Defence Industry Cooperation 日欧防衛産業の強み、防衛産業協力の課題

### Strength of Japanese and European Defence Industry 日欧防衛産業の強み

#### Japanese strength;

エレクトロニクス、先進材料、精密加工、自動化、納期遵守、ものづくり力

- State of the art technology founded on advanced civilian technology such as electronics (sensor, device, semiconductor), advanced materials (composite materials),
- Strict observance of delivery date and manufacturing excellence

precision machining and automation etc.





#### European strength;

高度先進技術、実戦で実証された装備品、国際共同開発・生産の豊富な経験

- Advanced technologies and "combat-proven" equipment
- Rich experiences in international joint development and production

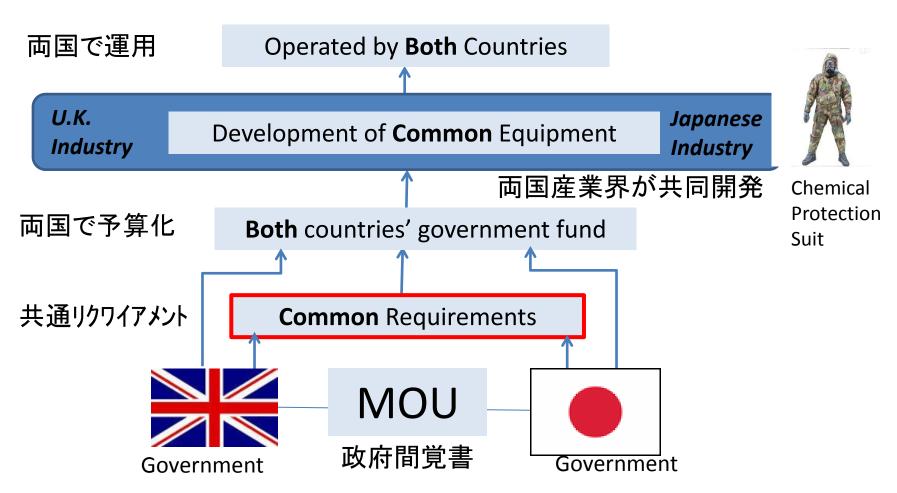
### Issues of Defence Industry Cooperation 防衛産業協力の課題

- 1. Different policies towards exports of defence equipment U.K.; Proactive vs. Japan; Restrained? 防衛装備品輸出方針の違い 英国; 積極的 対 日本; 抑制的?
- 2. Differences of procurement, contract and budget system between U.K. And Japan 日英の調達、契約、予算制度の違い U.K.; 10-year Equipment plan 10年装備調達計画(英) Japan; Midterm defense buildup plan(5 years) 中期防(日)
- 3. Detailed Institution for Information Security 情報保護に関する具体的制度設定

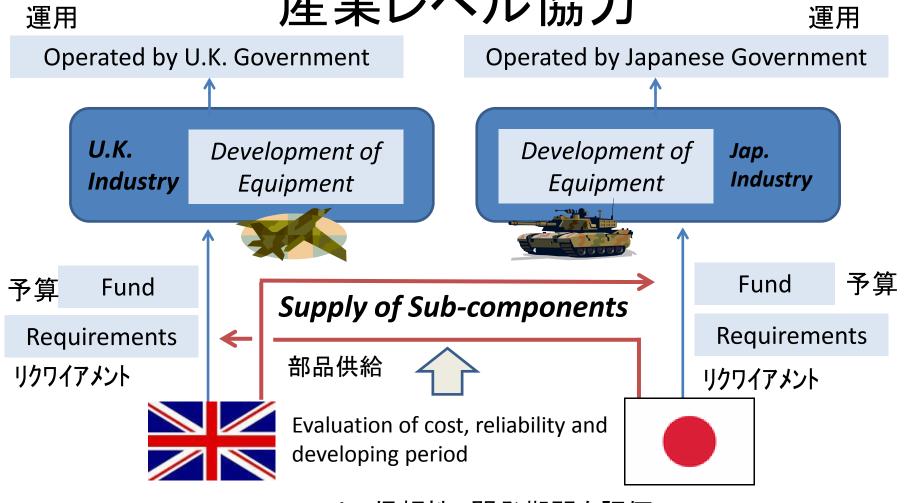
## Two approaches of Cooperation

防衛産業協力の2つのアプローチ

## Model 1: Government-Government Cooperation 政府レベル協力



## Model 2: Industry-Industry Cooperation <sub>運用</sub> 産業レベル協力 <sub>運用</sub>



コスト、信頼性、開発期間を評価

## Cooperation with Europe 欧州との防衛産業協力

## Japan-Europe Defence Industry Forum 日欧防衛産業フォーラム

Continuous dialogues for building the Relationship and Networking 対話を通じて関係構築とネットワーク作り

(November 22<sup>nd</sup> 2012 in Tokyo)

"EU-Japan Common challenges, shared solution seminar" Hosted by EBC(European Business Council)

(March 12<sup>th</sup> 2013 in Tokyo)

"Japan-Europe Defence Industry Forum"

Hosted by METI

(June 19<sup>th</sup> 2013 in Paris Air Show)

"Japan-Europe Defence Industry Forum"

Hosted by GFAS with the support of METI at Paris Air Show

## Industry Dialogue with U.K. 英国との産業間対話

#### Government



-Defense Equipment Cooperation Framework -Information Security Agreement (July 4<sup>th</sup> 2013)



#### **Industry**

\*ADS: UK Aerospace, Defence, Security and Space Industries

Coordination meeting between SJAC and ADS\* in Sept. 2013

- -Discussed the way to promote Cooperation
- 9月に防衛産業間で協力の進め方につき協議

Defence Industry Dialogue in Farnborough Air Show in June 2014 ファンボローエアショーで防衛産業フォーラム開催を計画

-Presentation of Industrial Capabilities in both countries and Networking 両国の防衛技術力の検証、ネットワーキング

## Conclusion 結論

## Proposals for Defence Industry Cooperation 防衛産業協力のための提言

- 1. Amendment to 3Ps on Arms Export which enables real industry level cooperation is necessary. 武器輸出3原則の見直し
- 2. Coordination of Differences in policy/governmental system and establishment of government organization to promote industry cooperation 政策・制度面の違いの調整と産業協力推進機関設置
- 3. Clarification of industrial Capability in both countries 両国防衛産業の技術力検証