

Japan-India
Defence Industry Dialogue
Inaugural Online Event

Considering Japan - India Defence Cooperation

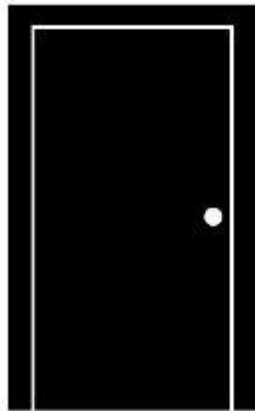
30 August 2022
10:30-12:00 New Delhi (IST) / 14:00-15:30 Tokyo (JST)

Junichi Nishiyama
Institute for Future Engineering (IFENG)

Japan's Arms Export Policy

1967

“Three Principles of Arms Exports”
1967/04 – 2014/03



Door Closed

Arms Export Prohibited

2014

“Three Principles on Transfer of Defense Equipment and Technology”
2014/04/01



Opened?

Export Allowed, But Limited

Next

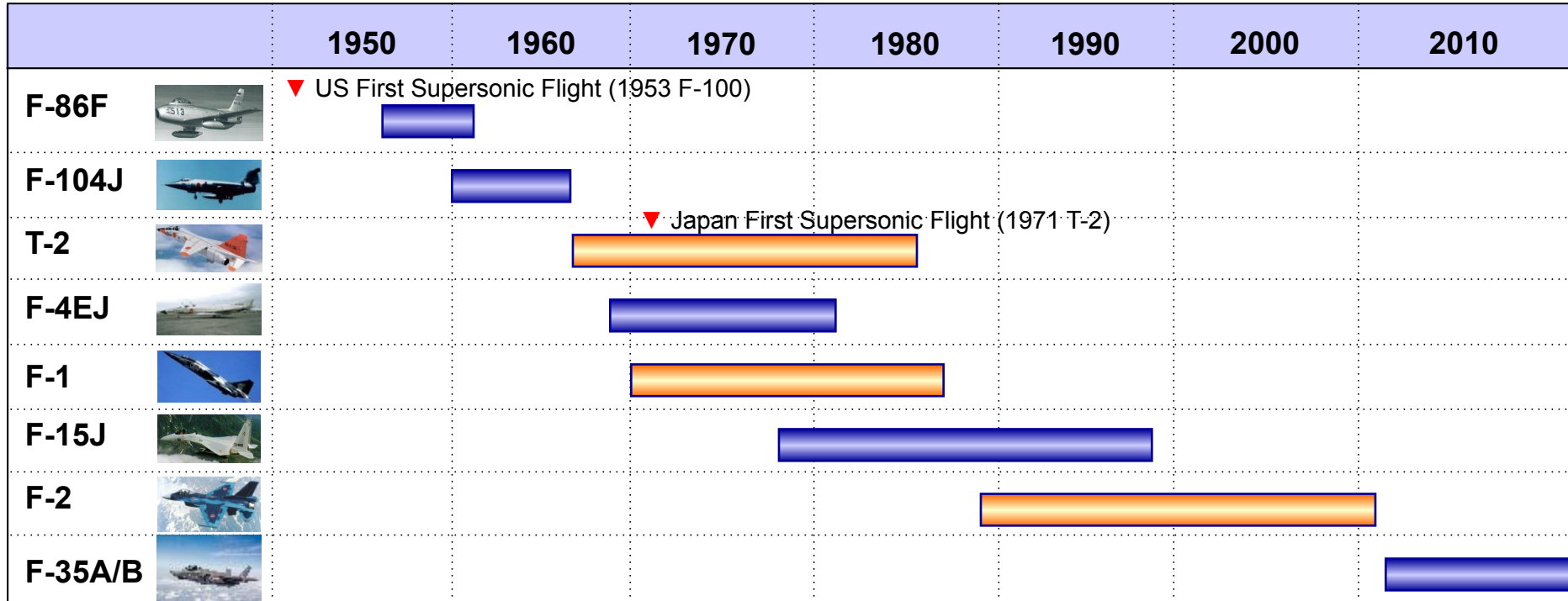


Need New Policy to Full Open



- Weapon Systems
- Parts/Components
- Maintenance Support
- Training

Japan's Experience - Fighter Aircraft

Licensed Production = Co-Production



FMS -> Knock Down -> Full Production

 Licensed Production
 Production: Indigenous Developed Aircraft

- J-Option: Japan Unique Option
- Test Facilities
- Training (Pilot, Manufacturing, Maintenance, Software Engineer ...)

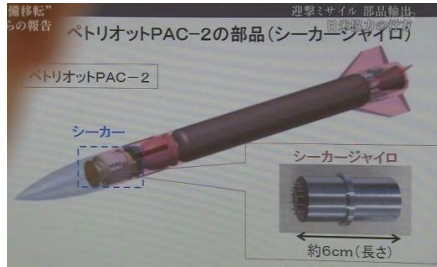
Acquisition of Defense Systems

- Full System: FMS/DCS
 - Constraints on Maintenance
- Production in Japan: Licensed Production
 - Restricted Third Country Transfer
- Co-development
 - Share Cost and Technology
- Indigenous Development
 - Higher Development Cost
 - Limited Sales

DCS: Direct Commercial Sales

FMS: Foreign Military Sales

Japan's Defense Equipment Export



PAC-2 Seeker Gyro
2014 to USA



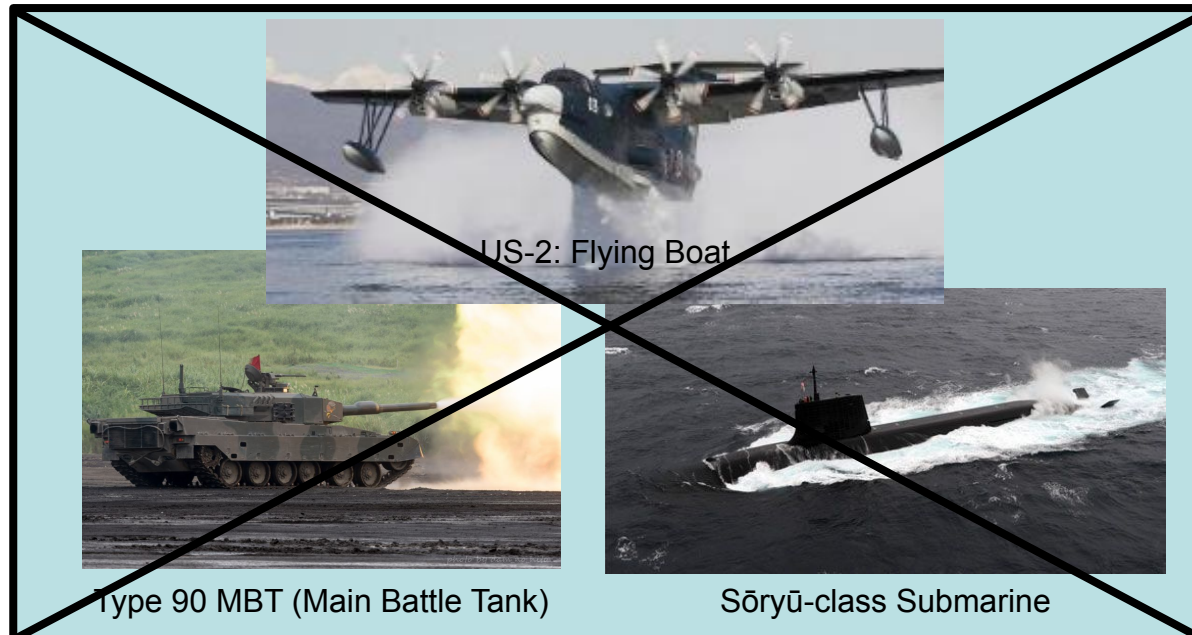
TC-90 Trainer Aircraft
2016 to Philippine

<https://www.mod.go.jp/msdf/equipment/aircraft/trainer/tc-90/>
<https://www.mod.go.jp/msdf/equipment/ships/ss/souryu/>



J/FPS-3
2020 to Philippine

J/TPS-P14
2020 to Philippine



IJS-2: Flying Boat

Type 90 MBT (Main Battle Tank)

Sōryū-class Submarine



Bulletproof Vest, Helmet
2022 to Ukraine

<https://www.nhk.or.jp/politics/articles/feature/79571.html>

Considerations for Cooperation

- Customer Required Modification
- Cooperative R&D (Research and Development)
- In-Country Manufacturing
- Training Support
- Maintenance Support
- Longtime Support

Japan's Developed Systems (Examples)



P-1: ASW Patrol Aircraft



US-2: Flying Boat



C-2: Transport Aircraft

ASM-3: Supersonic Air to Ship Missile
(carried by F-2 Fighter Aircraft)



Type 10 MBT (Main Battle Tank)



12SSM: Surface to Ship Missile



Chu-SAM:
Medium Range Surface to Air Missile

Koku-Jieitai
Japan Air Self-Defense Force
© JASDF

<https://www.mod.go.jp/gsd/equipment/fire/index.html>
<https://www.mod.go.jp/msdf/equipment/aircraft/patrol/p-1/>
<https://www.mod.go.jp/asdf/equipment/yusouki/C-2/index.html>

Summary

- **Japan: Need to Change Defense Equipment/Technology Transfer Policy**
 - Expand to include Weapon Systems
- **Japan: Government & Industry Collaborated Approach**
- **Explore the Plausible Scheme for Cooperation**
 - Lessons Learned from Licensed Production (Co-Production)
 - Phased Approach: Complete System, Knock Down, Full Manufacturing with Country Unique Modification
- **Defense System Collaboration Strengthen the Tie with Allied Country and Friendly Countries**

Making the Region Stabilize – Asia-Pacific