

JPO's Activities For Making Use of AI

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Japan Patent Office
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Purpose for making use of AI technology

Change of JPO's work

Advancement of technologies
Expanding search target
Increase in trademark applications
Retirement of experienced officials

Progress of AI technology

Machine Learning
Natural Language Processing
Deep Learning

Making use of AI technology



Goal!

Sophisticated and efficient operations

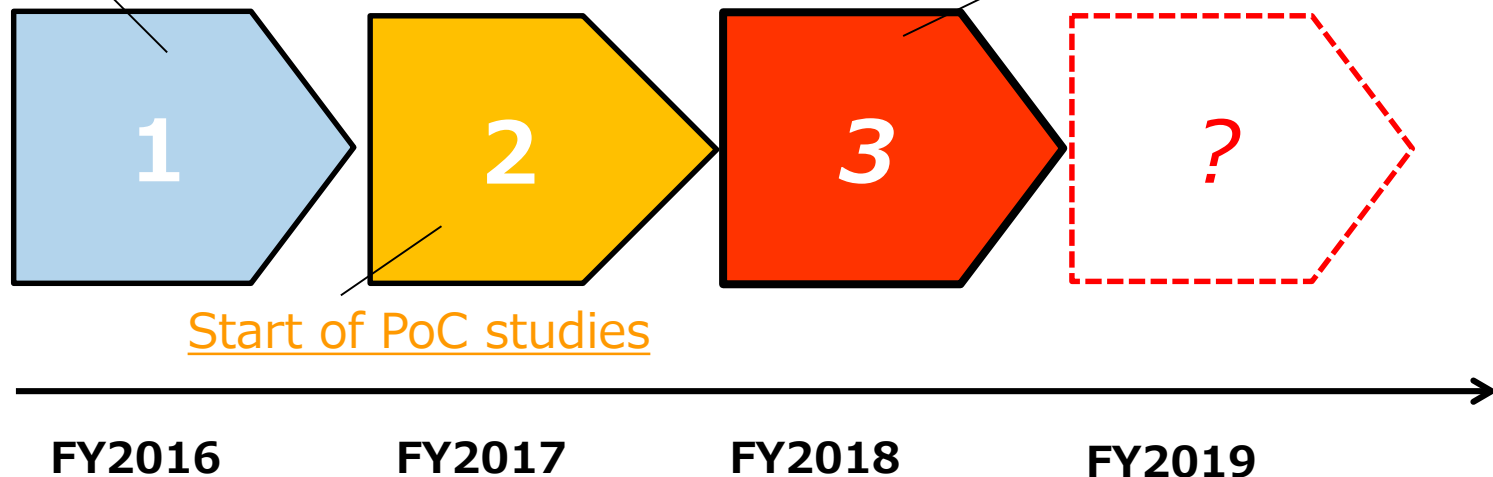
➔ Improve user services

JPO's Initiatives Undertaken for Using AI

1. Conducted **feasibility studies** on how AI technology can be applied to business operations – in **FY2016**
2. Started conducting a **proof of concept (PoC)** for operations in which AI can possibly be used - in **FY2017**
3. Continue conducting the PoC and Make **preparations** to develop and introduce support tools for JPO's operations – in **FY2018**

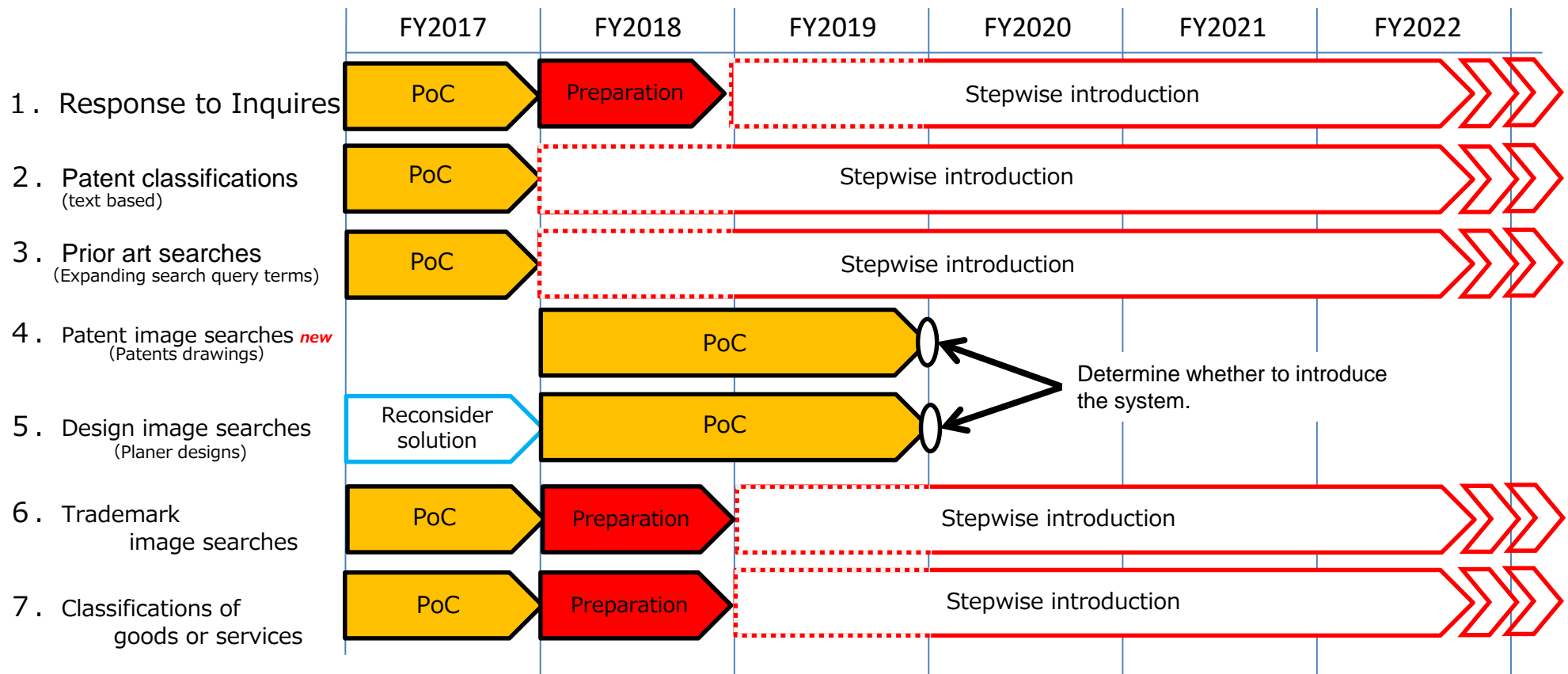
Feasibility studies on potential use of AI technology in operations

Preparations for introducing AI-based tools



Action plan

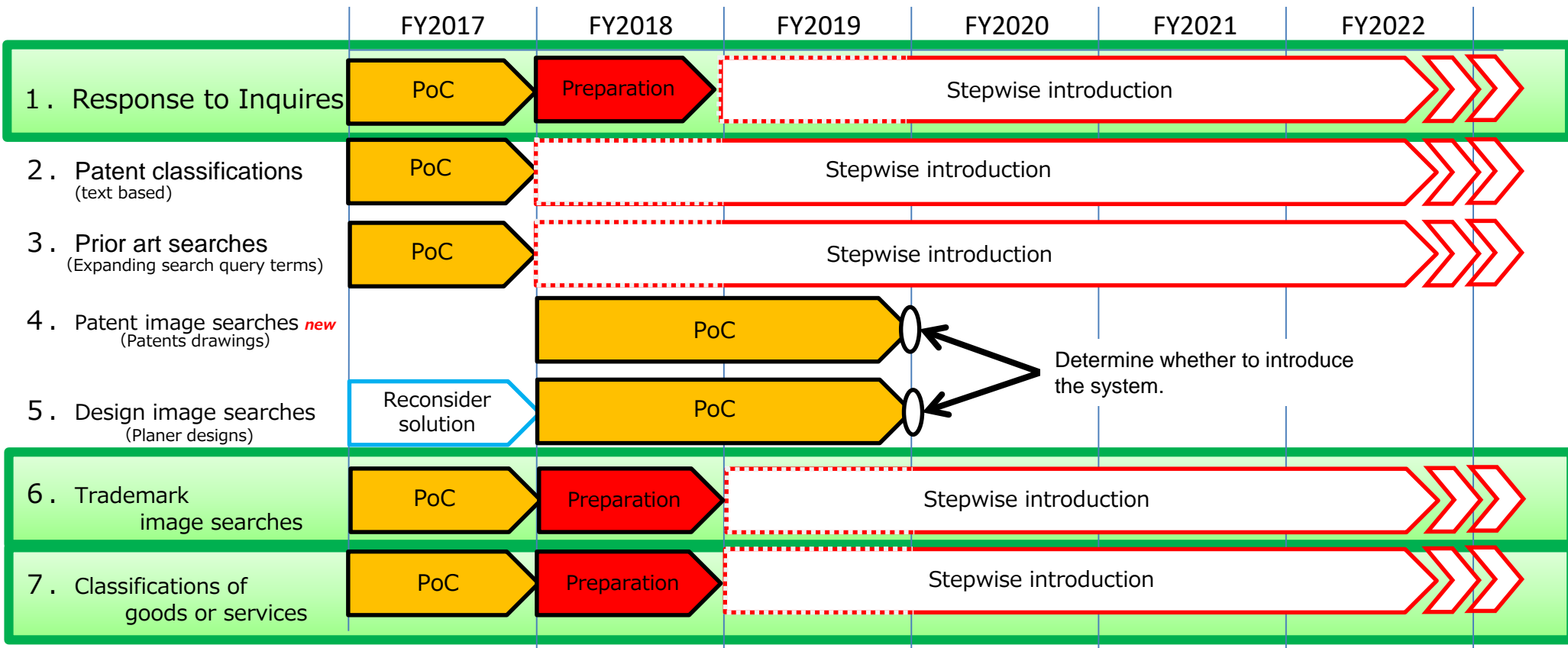
- JPO has made activities for making use of AI technology based on **Action plan** since FY2017.
- Action plan was revised in FY2018 based on the result of activities in FY2017.



(*) The above actions are based on rough estimates and progress may vary depending on the development of demonstrations, advancement of the relevant technologies and other circumstances.

Action plan

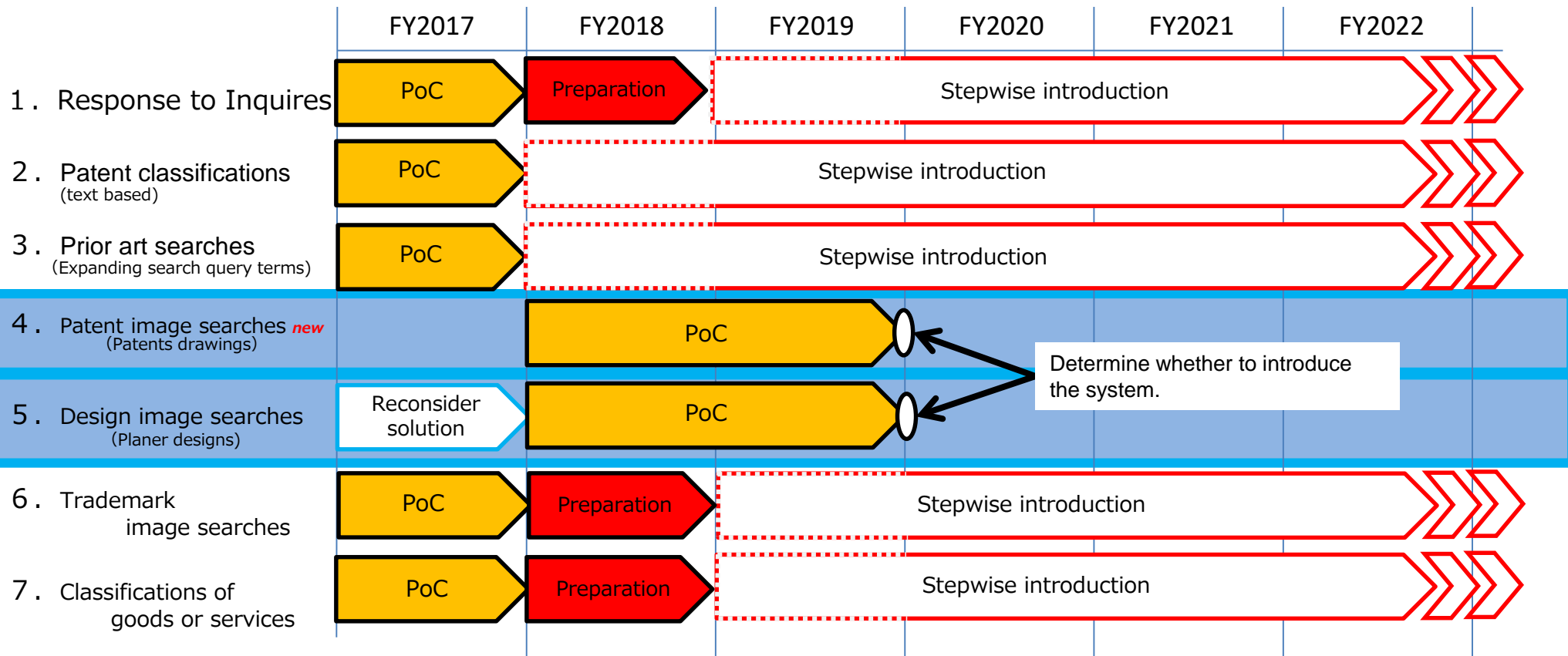
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Action plan

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Developing AI-based tools

Agile software development by In-house development team

- JPO in-house team will use an **“agile software development”** approach to develop AI-based tools in order to respond to the rapid advancement AI technology so as to install state of the art AI-based tools.

Based upon PoC, the team chose following operations for software development

- Patent Classifications
- Prior Art searches
- Trademark image searches



Thank you!!