



■ Standardizing Digital Communication in the IP World:
WIPO Standards and collaboration for IP ecosystem

**FICPI 18th Open Forum
Vienna, Oct 11, 2019**

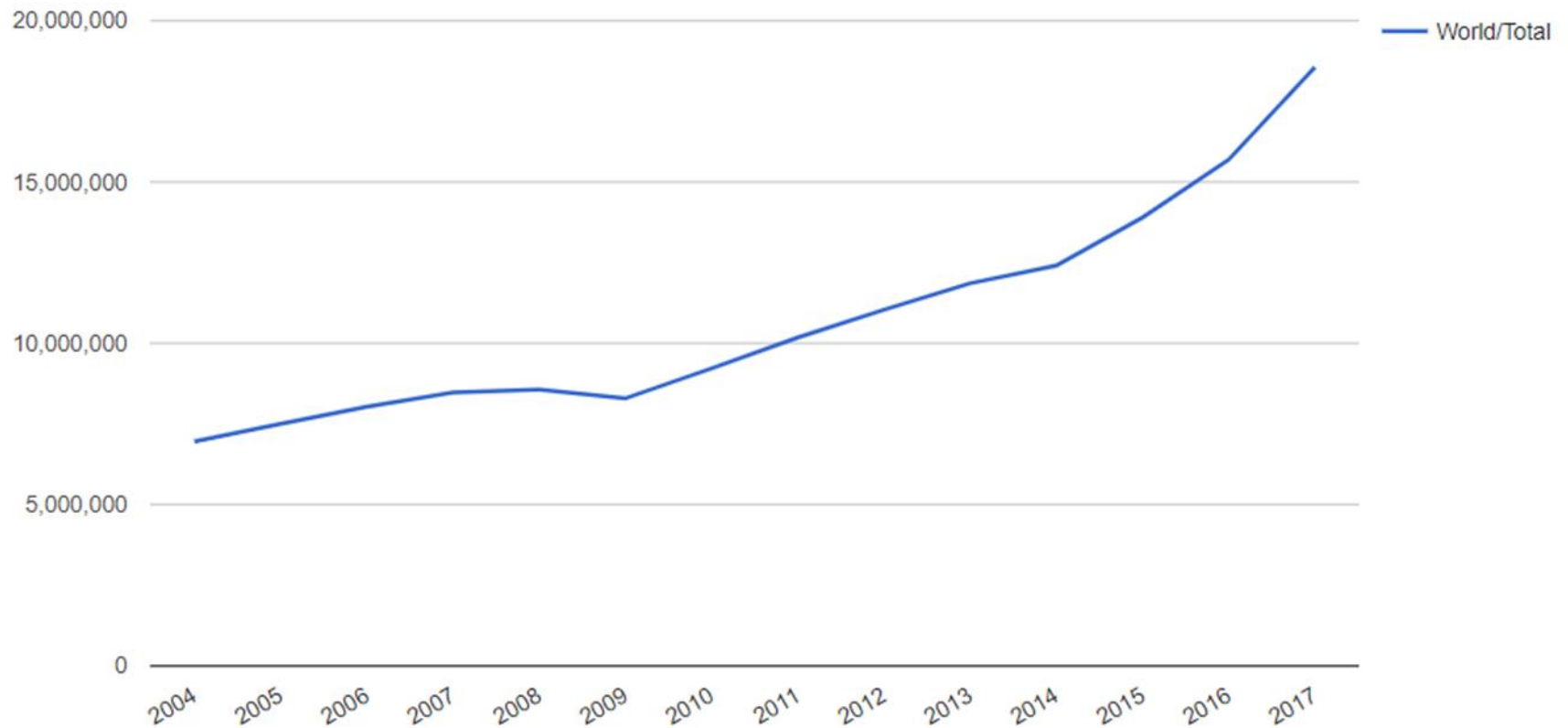
Young-Woo YUN, Head of WIPO Standards Section

Overview

- Evolution of IP Ecosystem
- Impact and Implication of evolution
- WIPO Standards
- Standardization Activities
- Possible Collaboration for interoperable IP ecosystem

Evolution of IP Ecosystem

■ Total IP applications around the world increased



Evolution of IP Ecosystem (con't)

- IP becomes more important in digital economy
- Lifecycle of technology shorter
- Digitalization of massive data processing
- Personalized data and prompt service
- Machine to Machine (M2M) communications
- Disruptive technologies, e.g., AI and Blockchain, available

Evolution Impact and Implication

- Digitized IP data in structured text format required
- IP data quality at source ensured
- IP digital objects connected and reused
- Interoperability enhanced
- Standardization essential
- Collaboration indispensable
- Development and use of common tools and services

WIPO Standards

- [WIPO Standards](#) provide a single, common framework for working with the information contained within IP data and documents
- By using WIPO Standards, IP offices around the globe can work in a more efficient, harmonious, and timely fashion
- WIPO Standards greatly simplify both international cooperation among Offices as well as helping public users of IP information to better access and make use of that information in their applications

Scope of WIPO Standards

- Semantic and Syntax Standards on IP data and documentation
- All IP domains: patent, trademarks, industrial designs
 - Geographical indications and Copyright in 2020
- Entire IP administration: filing, processing, publication/dissemination and post grant/registration; and exchange
 - IP management data to be improved
- Stakeholders and users: IP offices, Applicants, IP Industry and IP professionals (IP attorneys to be considered)

Recent focus and trend

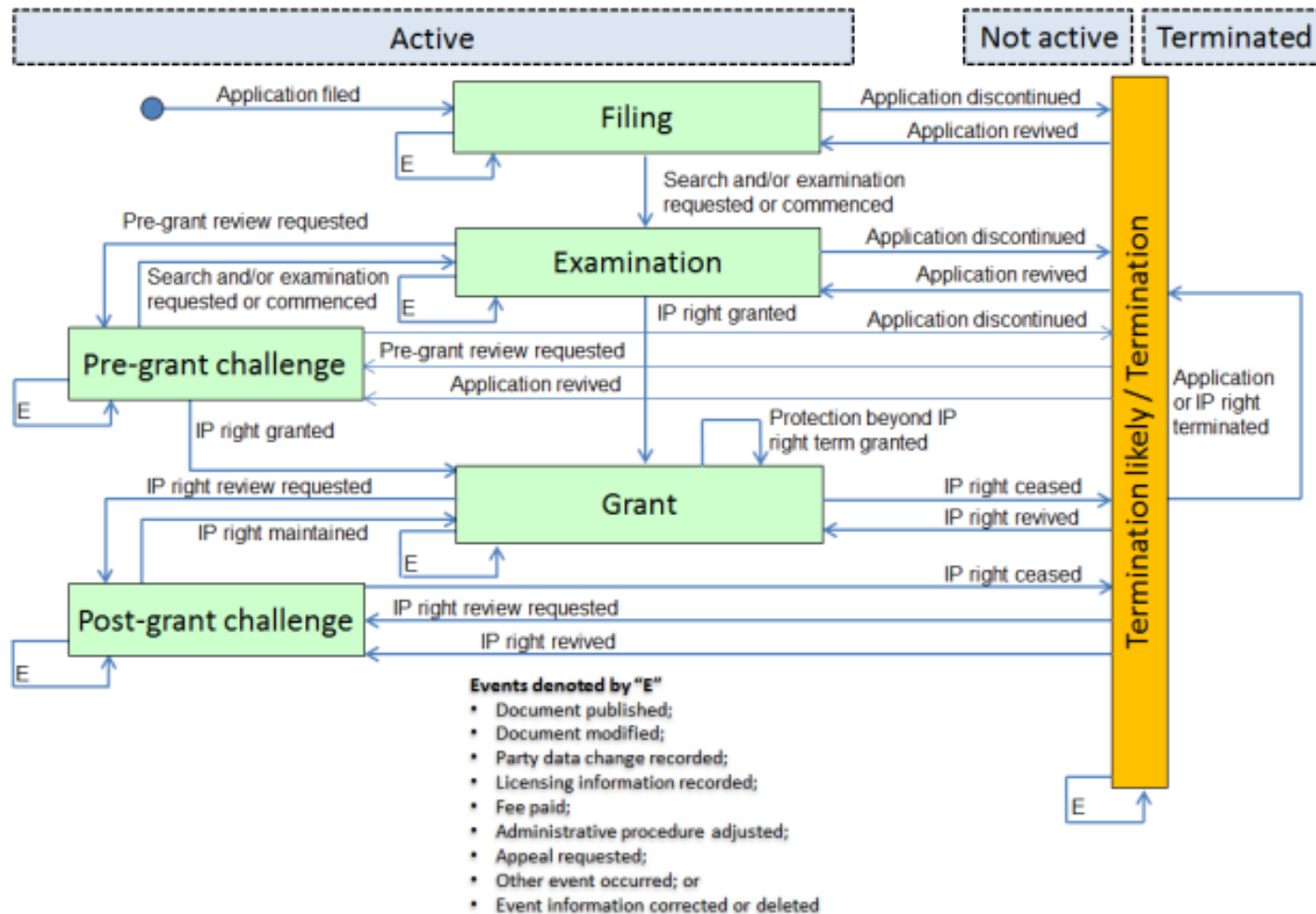
- Legal status information
- Further standardized IP digital objects
- Streamlined data flow in national and international process
- Development of common tools
- Implication of disruptive technologies
- More active participations by IP industry and IP professionals

WIPO ST.27 – Patent Legal Status

- For the exchange of patent legal status data
 - to facilitate access to legal status data by IP information users, other Offices, IP data providers, the general public and other interested parties.
- Legal status data should be
 - reliable / accurate / in time / accessible
 - **standardized, comprehensive and understandable**
- The standardization project was initiated by patent information user groups

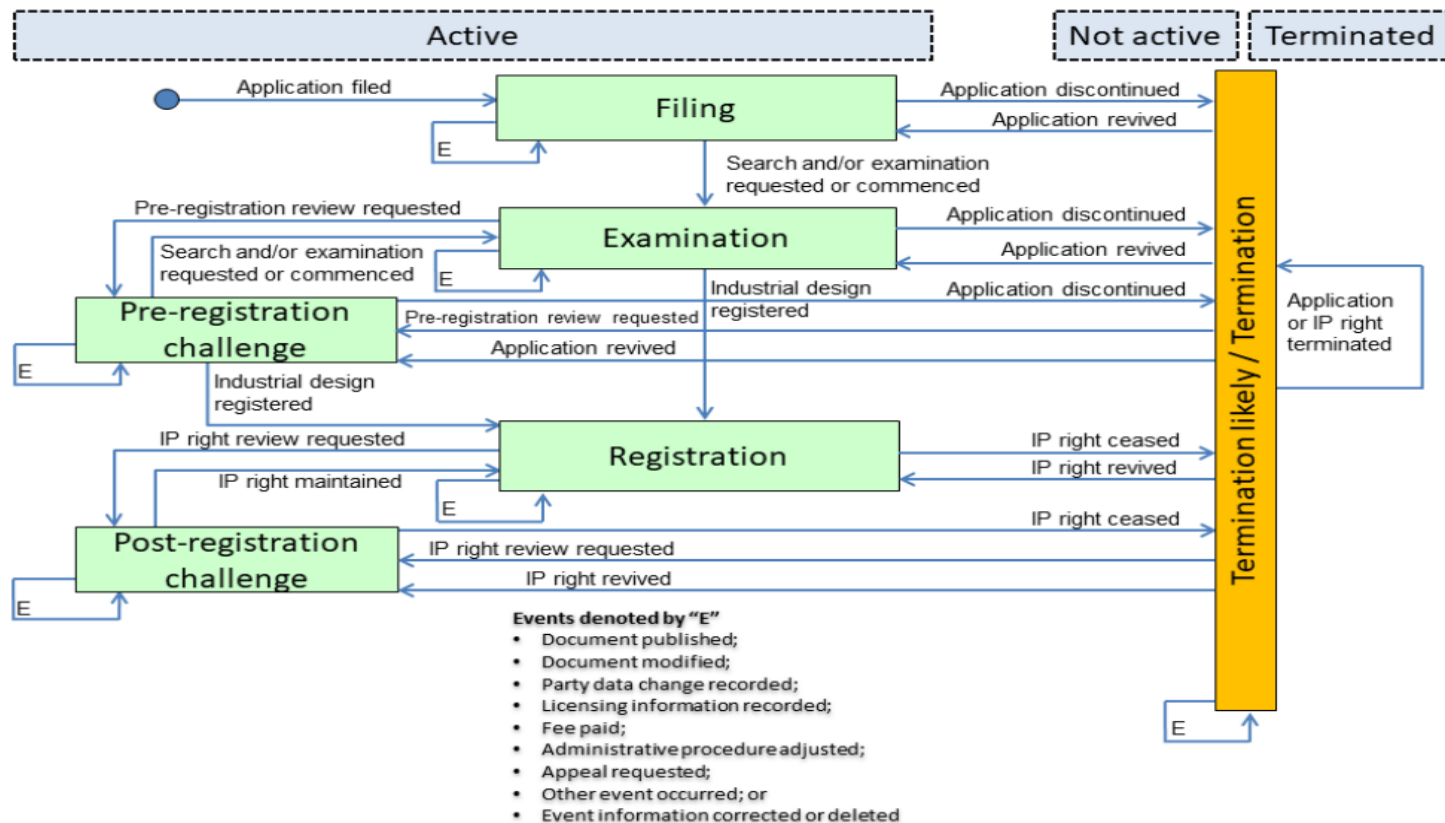
WIPO ST.27 – Patent Legal Status

- 6 stages, 3 states, 21 Categories and Key/detailed events



WIPO ST.87- Design Legal Status

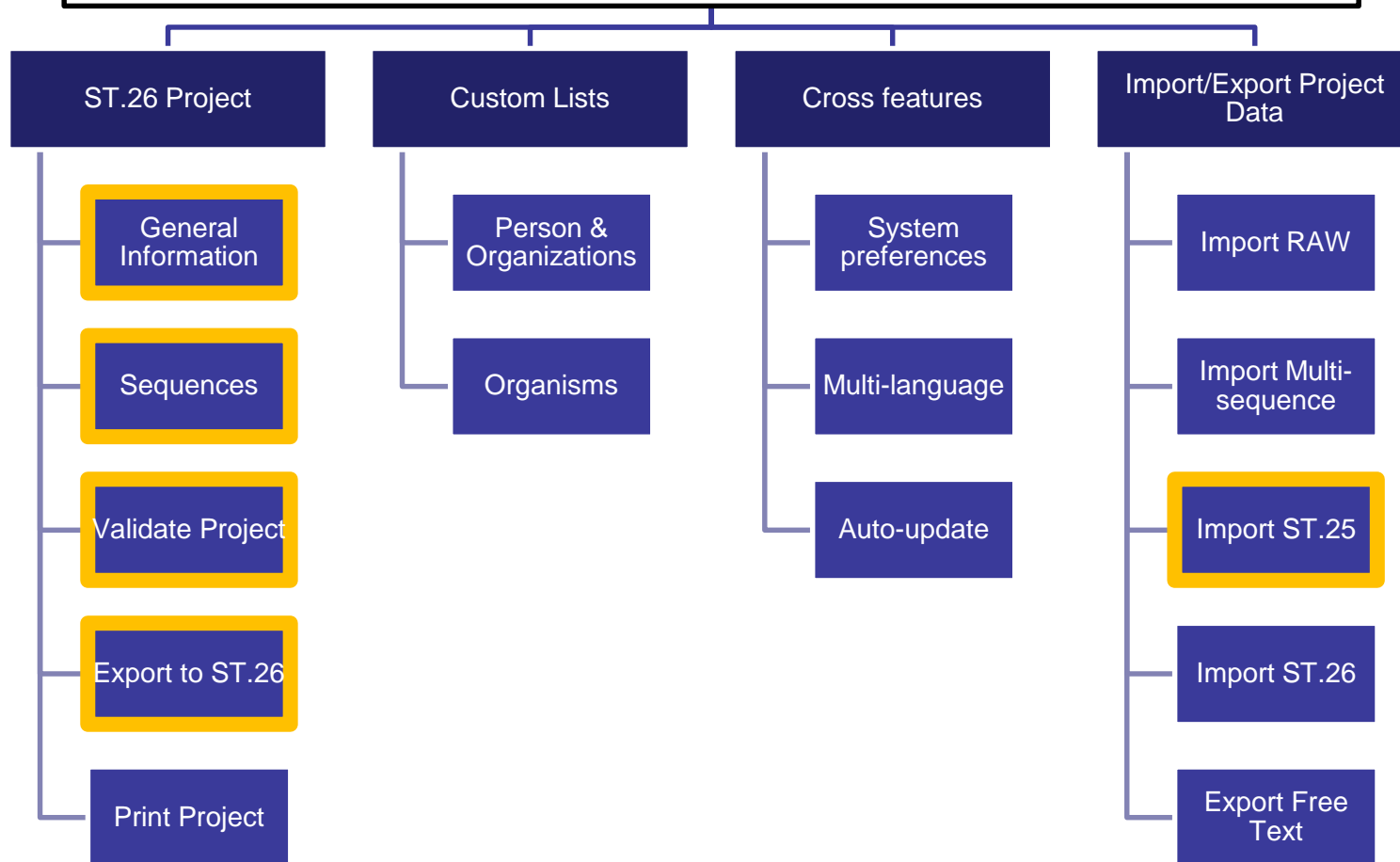
- 6 stages, 3 states, 20 Categories and Key/detailed events



WIPO ST.26 – Sequence Listing

- Presentation of nucleotide and amino acid sequence listings using XML
- From 1 Jan 2022, **all** IP Offices must implement WIPO ST.26 at national and international level
- IP Offices will also need to support applicants in their transition from ST.25
- WIPO is developing a common **WIPO Sequence tool** for applicants and IP offices around the worldwide
 - IP offices and end users participating in testing
 - The tool will be deployed in the 2nd half of 2019

WIPO Sequence tool: Main Functions



WIPO ST.37- Authority File

- “Recommendation for an authority file of published patent documents”
 - to allow all interested parties to assess the completeness of the available patent documentation from the IP office that generated the authority file
 - Standard defines data elements to constitute an authority file of patent documents, as well as its structure and format.
- WIPO Authority File Portal (currently 20 IP offices):
https://www.wipo.int/standards/en/authority_file.html

WIPO ST.96 – XML for IP

- XML resources to be used for filing, publication, processing, and exchange of information for Patent, Trademark, Industrial designs
- New IP domains: Geographical Indications (Gis) and Copyright orphan works to be added
- IP offices are collaborating for interoperable implementation of WIPO ST.96
- Plan to establish e-forum to support Developers to implement ST.96

Who develops WIPO Standards?

- The [Committee on WIPO Standards \(CWS\)](#) is the collaborative international forum for discussing and reaching agreement on WIPO Standards, including their revision and development.
- 17 Task Forces (Expert Groups) are active under the CWS to enhance WIPO Standards and other materials, where IP offices and user groups nominate their experts.
 - Legal Status Task Force
 - Blockchain Task Force
 - XML4IP Task force
 - PAPI Task Force
 - ...

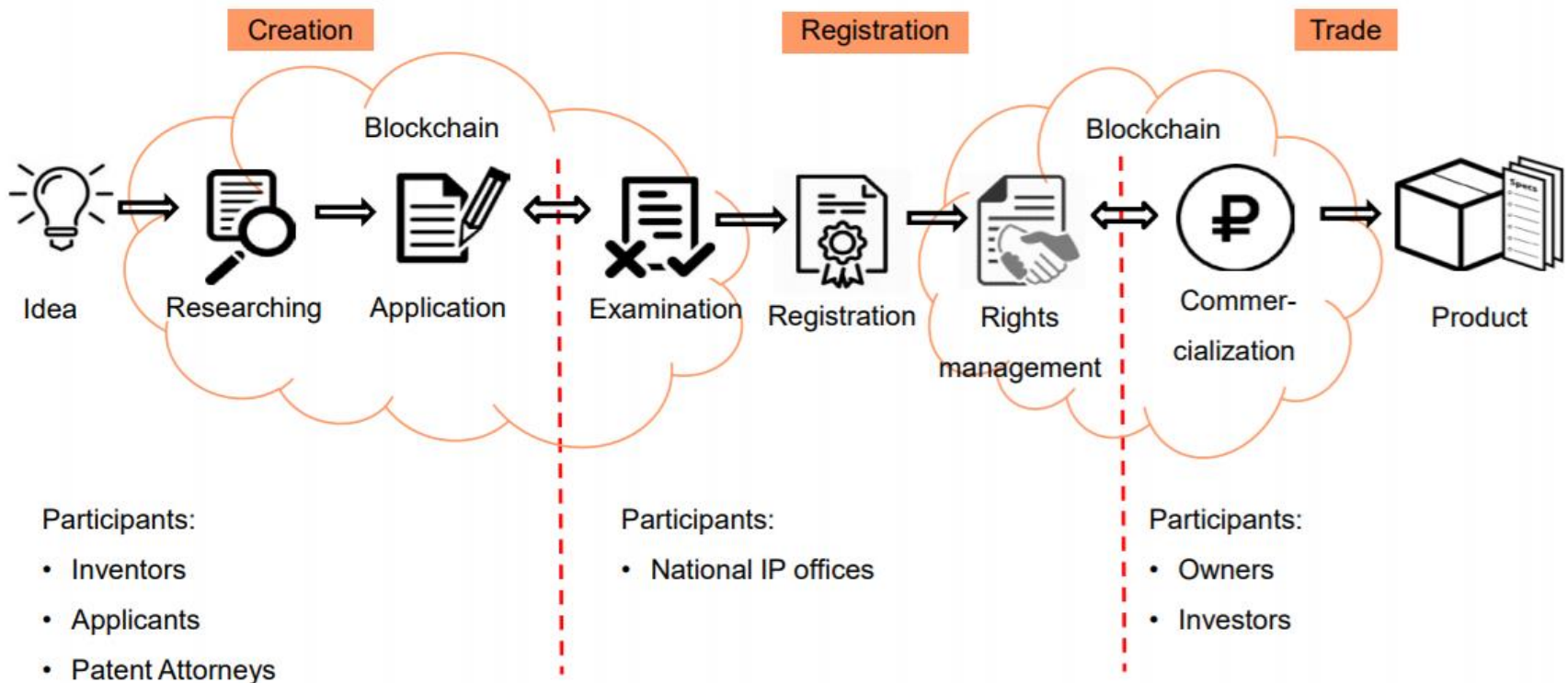
CWS Task Force Activities

- Impact of disruptive technologies on IP administration and IP data in view of harmonization and collaboration
- Potential applications of Blockchain for IP ecosystem
- Name standardization
- Digital Transformation
- 3D objects and 3D images
- XML for GIs and Copyright orphan works
- Web API standard for M2M communication
- Trademark legal status data and Multimedia marks
- Others

Example: Blockchain for IP ecosystem

- [WIPO Standards Workshop on Blockchain](#)
 - Explore how to leverage the technology for IP and identify business cases in IP that could potentially benefit from blockchain technology
- The [outcomes](#) of the workshop reported to the CWS/7
- Plan to prepare white papers on the potential applications of Blockchain technology to IP ecosystem and recommendations for its use in IP space

Example: potential Blockchain use case



Consideration for standardization

- Entire IP ecosystem
 - IP administration and prosecution
 - IP value chain and supply chain process
- Active Participation and Coordination
 - Various stakeholders and users: IP offices, applicants, IP attorneys, IP professionals, IP service providers, system developers...
- Disruptive technologies
- Semantic and Syntactic standards for interoperability

Possible Collaboration

- Partnership for IP ecosystem
 - Identify challenges in relation to IP value chain, including interoperability and data connectivity
 - Frequent communications
- More active participation by IP industry and IP professionals in WIPO Standardization
 - Surveys on practices, e.g., use of 3D object survey
 - CWS TFs discussion
 - Meetings and workshops
- Establish e-forum for discussion

Questions and Discussions

- Thank you for your attention and collaboration!