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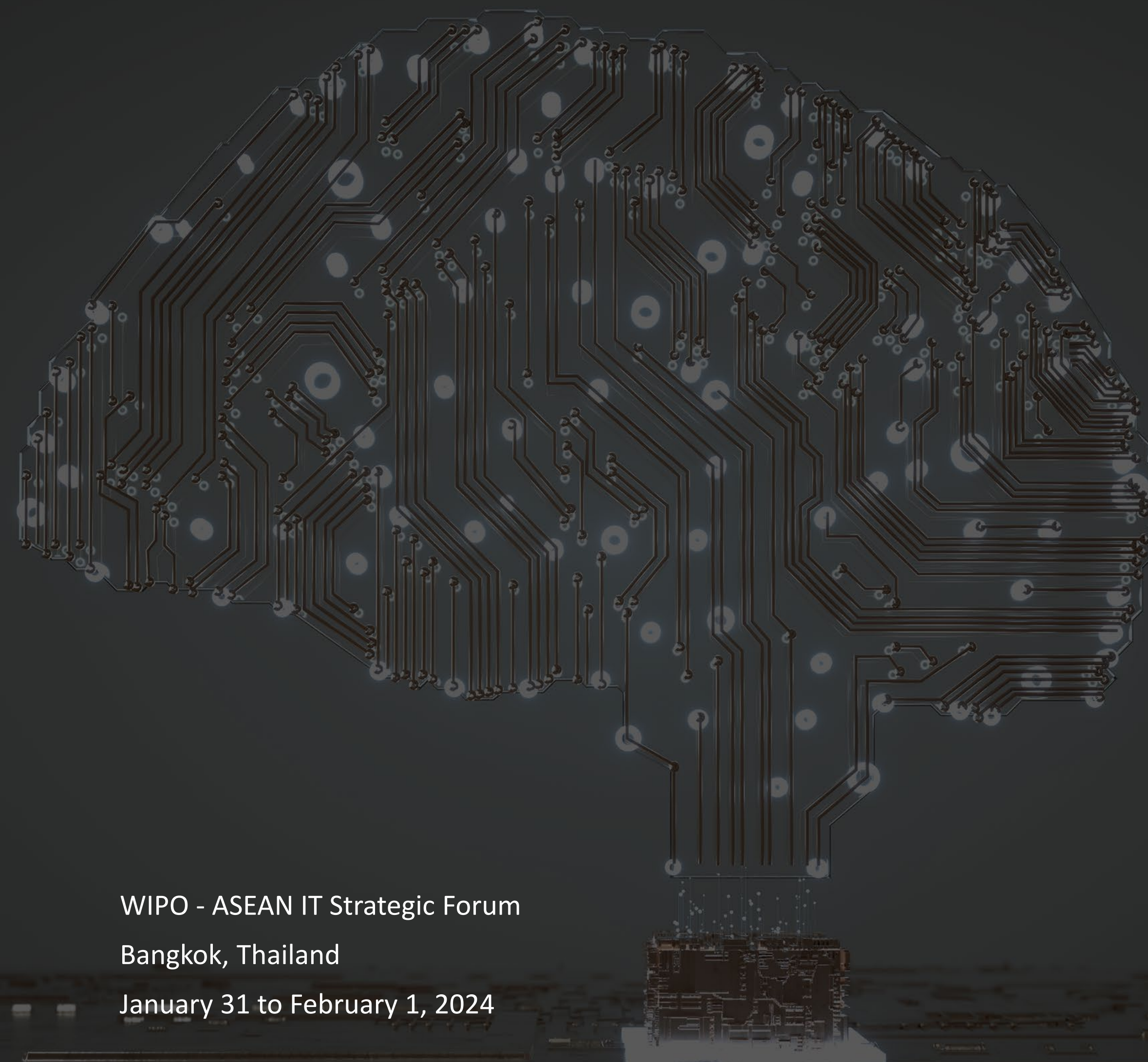
Streamlining IP Processes with AI-Powered Automations

Mike Cristiano

Chief Information Officer & General Manager

Innovation and Technology Group

IP Australia

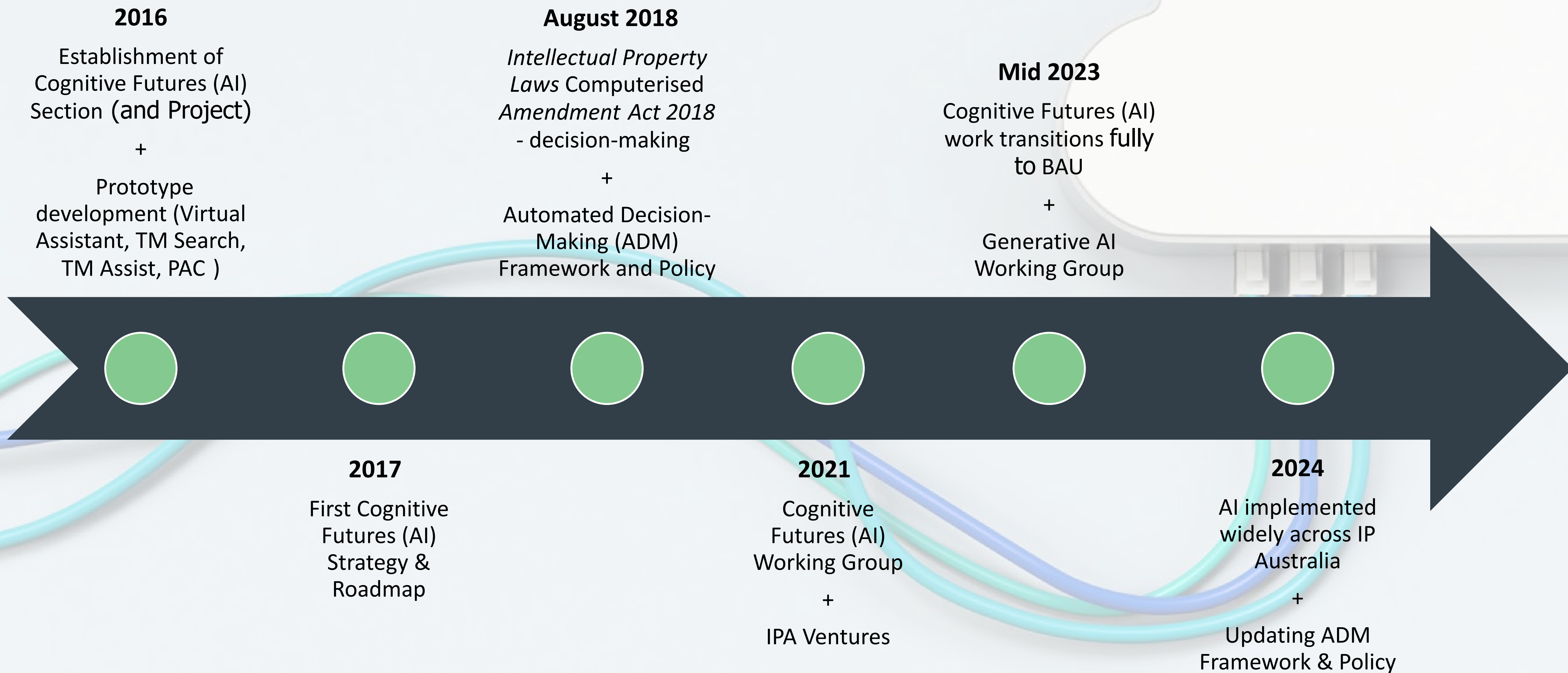


WIPO - ASEAN IT Strategic Forum

Bangkok, Thailand

January 31 to February 1, 2024

IP Australia's AI Journey

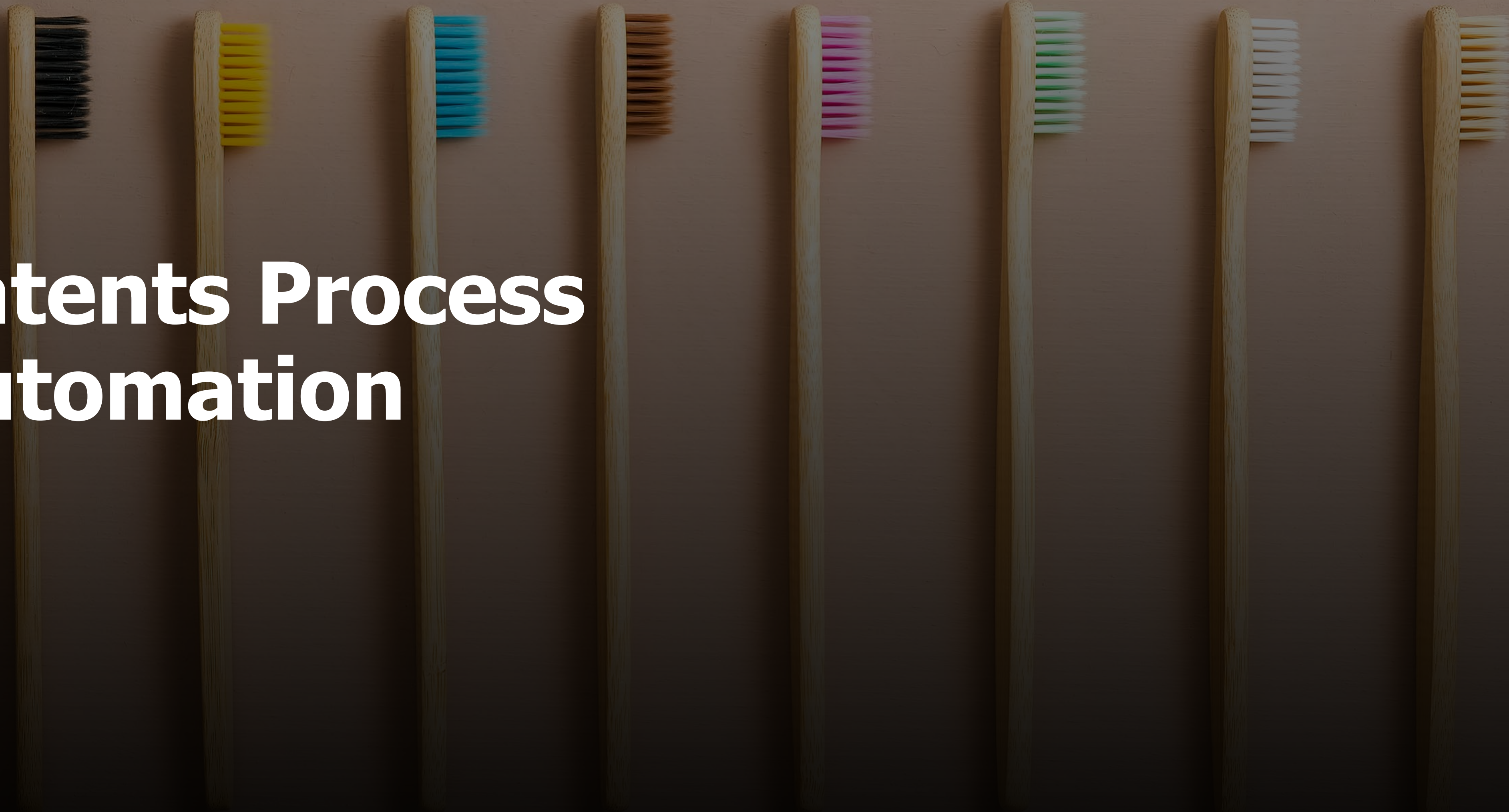




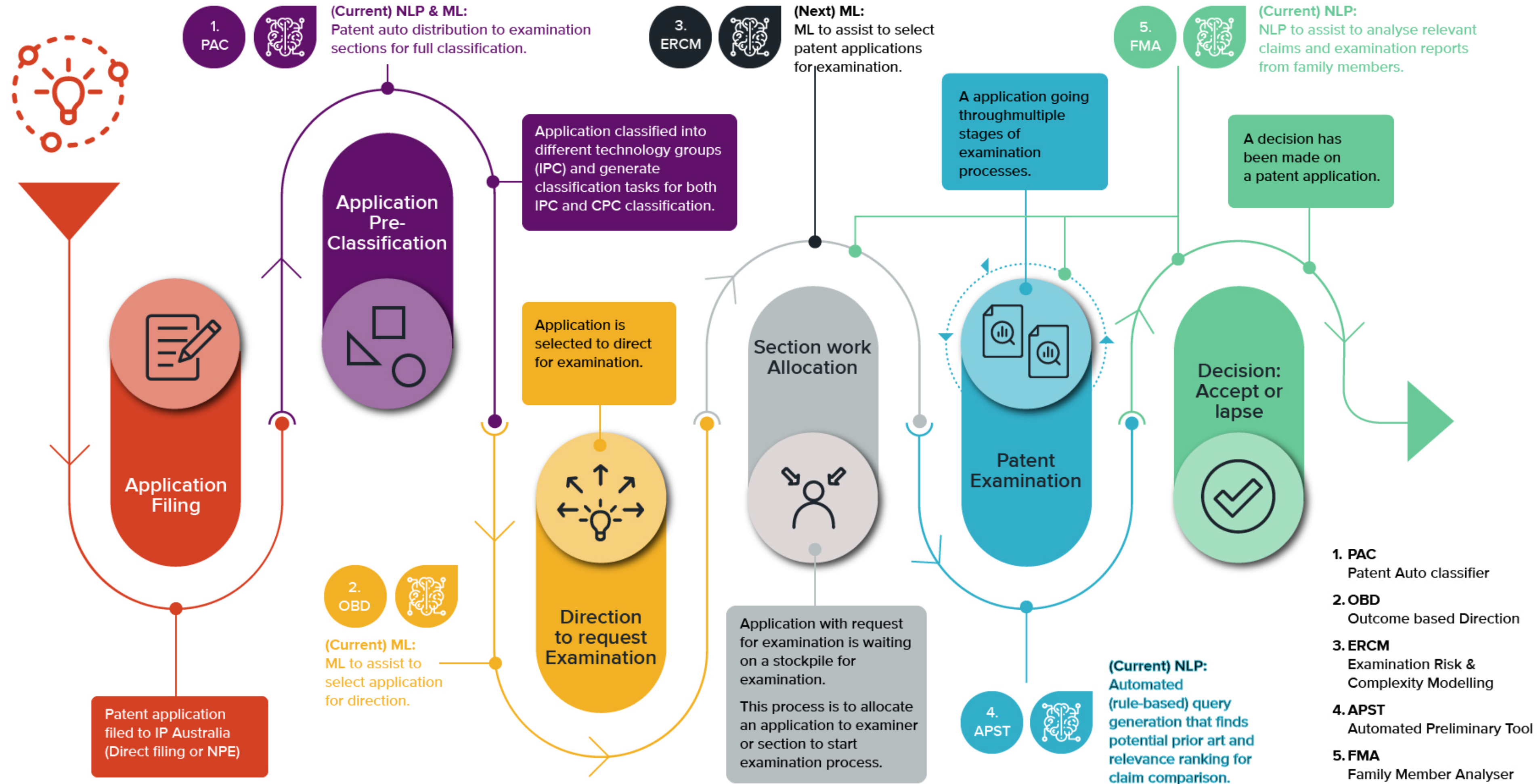
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Patents Process Automation



Patents – Lifecycle map, filing to grant

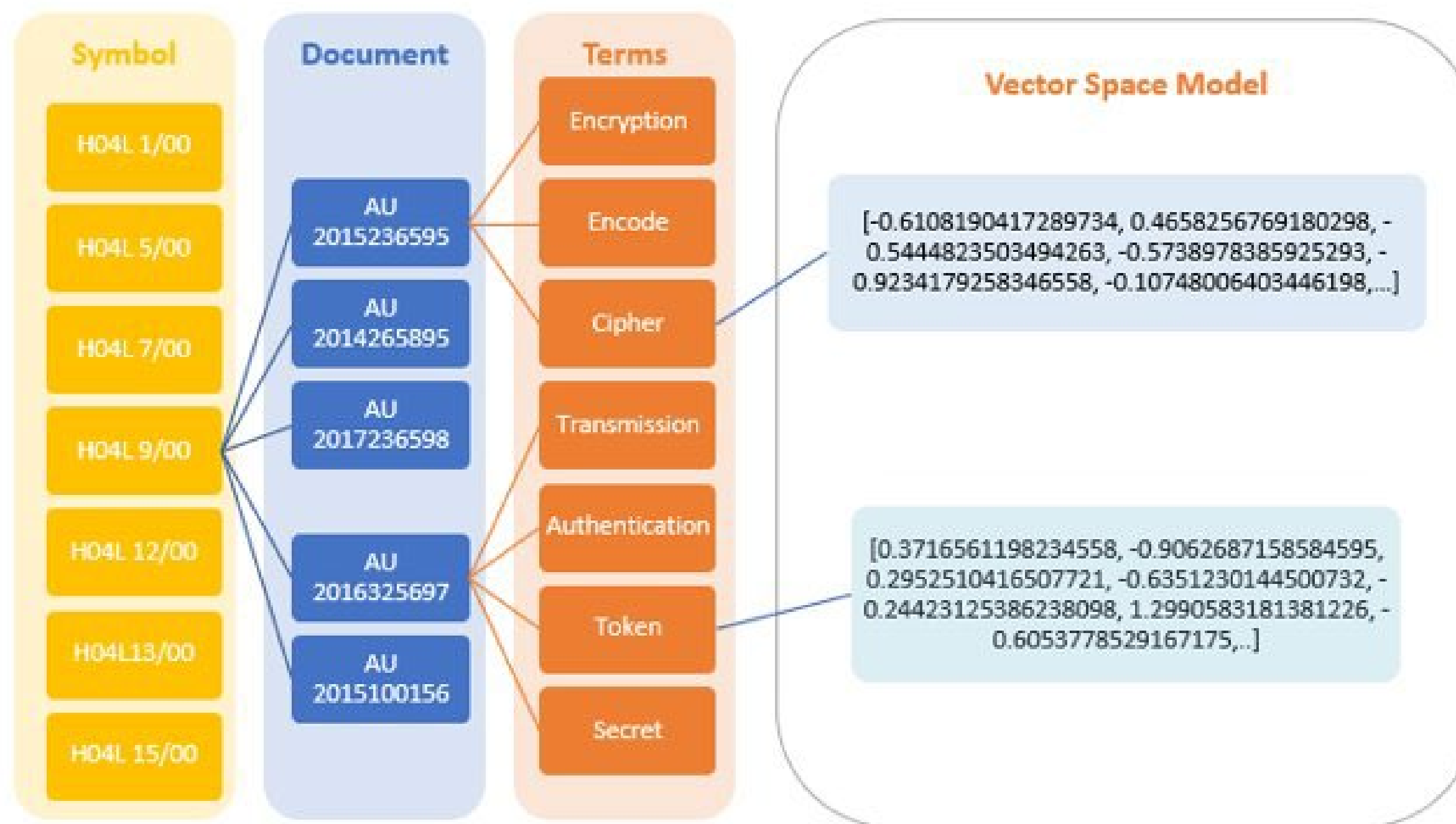


Filing and Formalities Automation

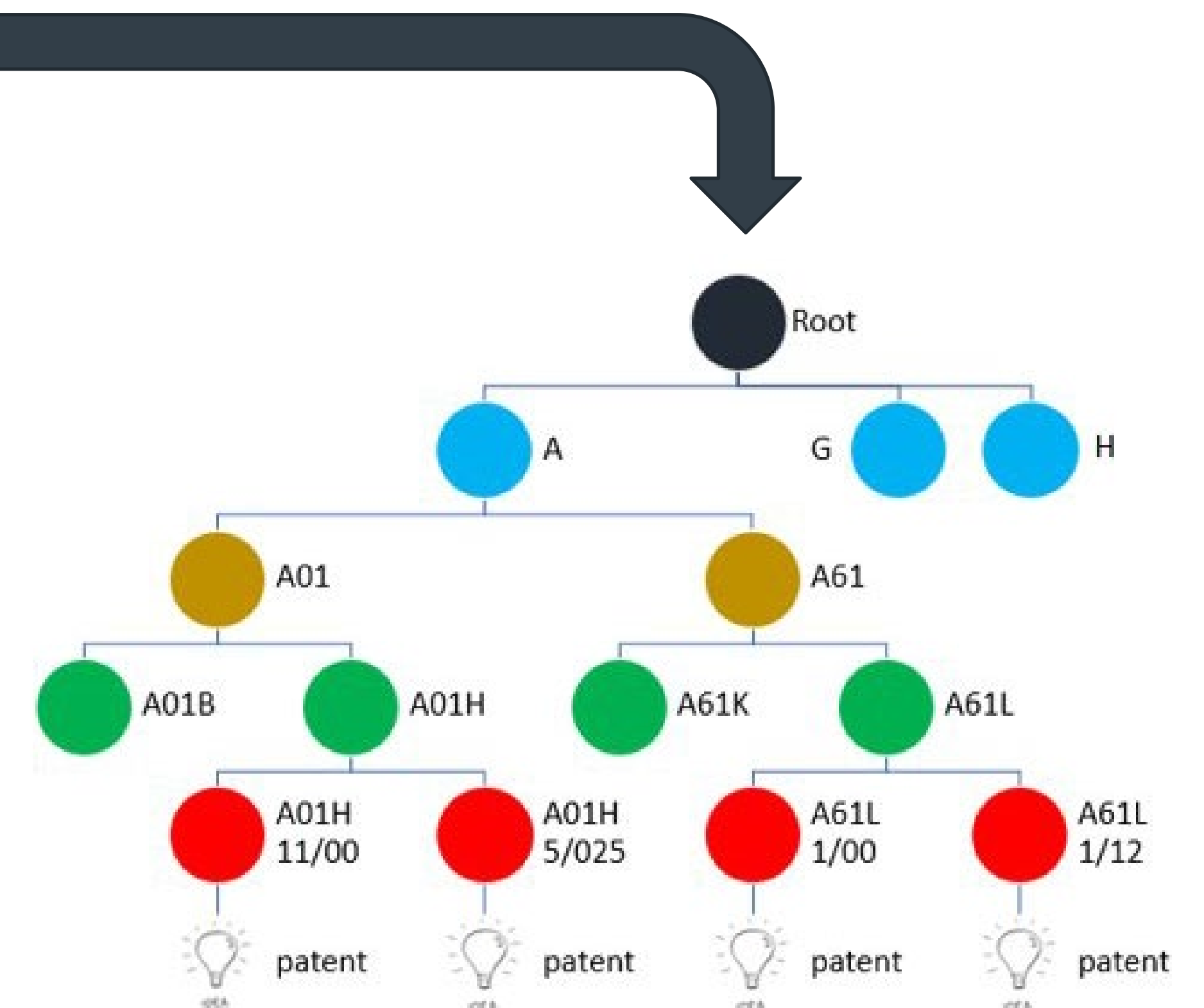
National Phase Entry and Direct Filing

- Up-to-date bibliographic data automatically retrieved from ePCT
- Automatic OCR-ing of specification documents (AWS Textract) and language check (AWS Comprehend)
- Automatically checks for prohibited words
- Automatic check of Minimum Filing Requirements and Formalities
- Automatic validation check of sequence listing (using ST.26 Validation Tool)
- Automatic conversion of the XML sequence listing to PDF for use in publication

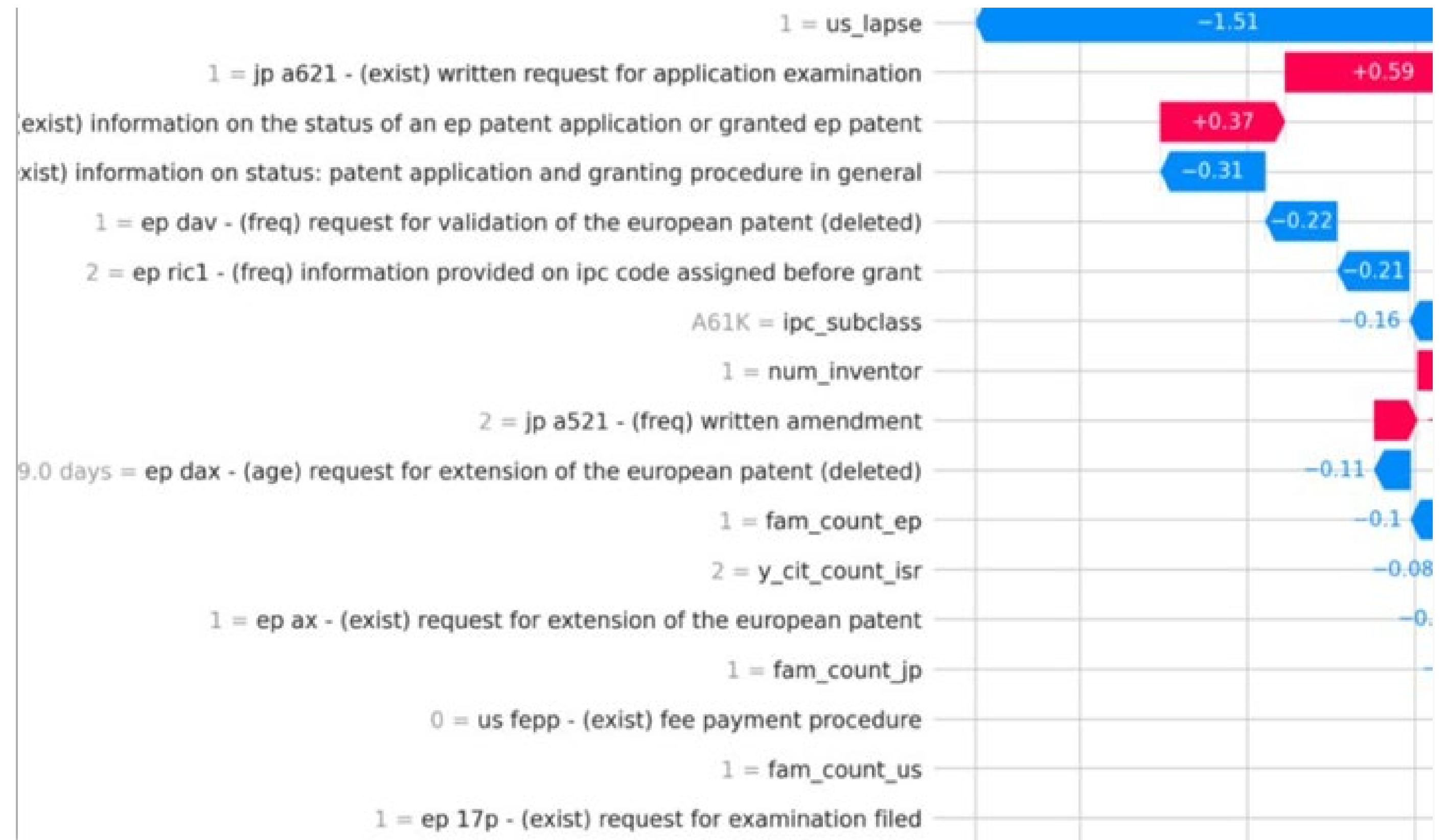
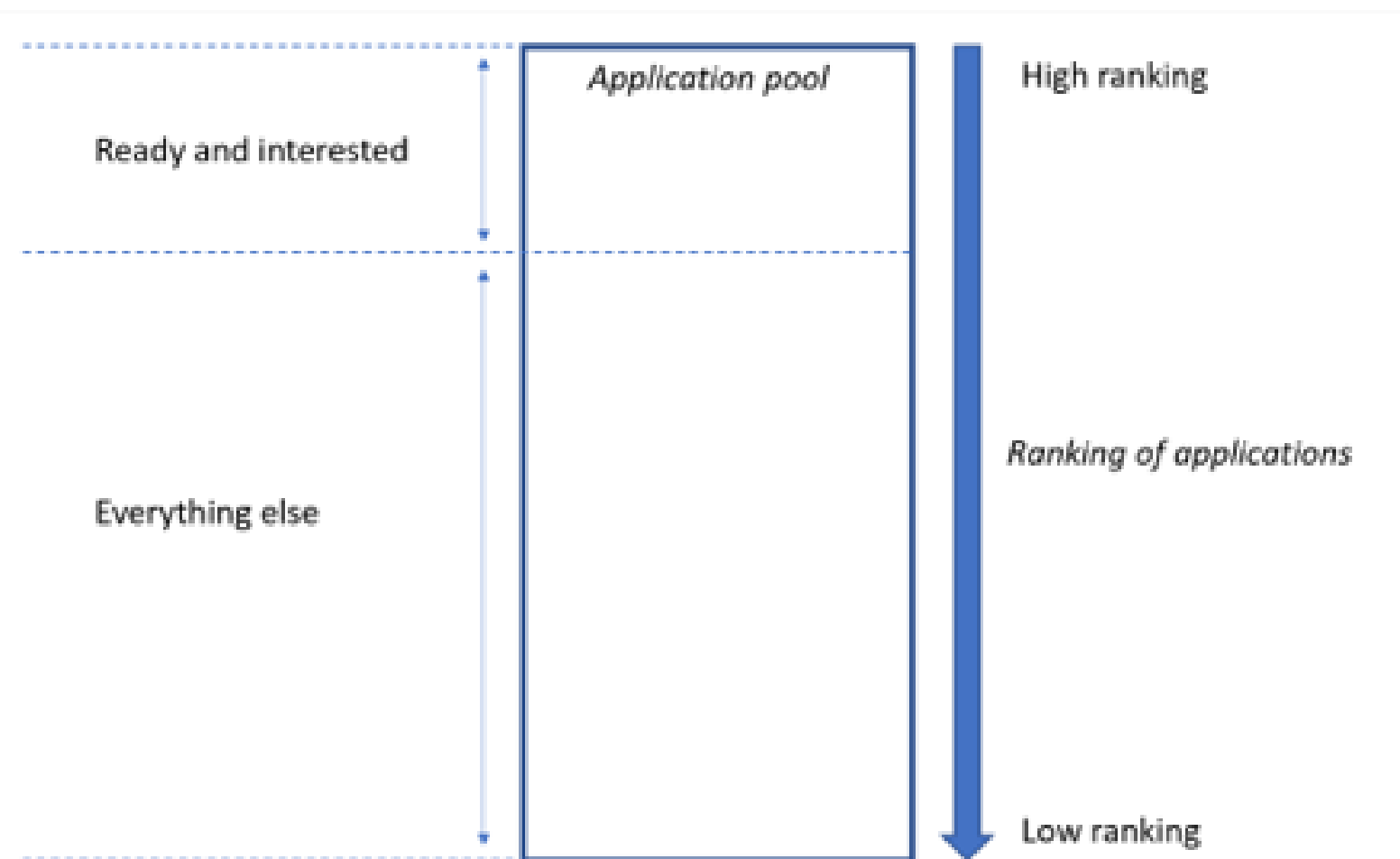
Pre-classification: Patent Auto Classifier (PAC)



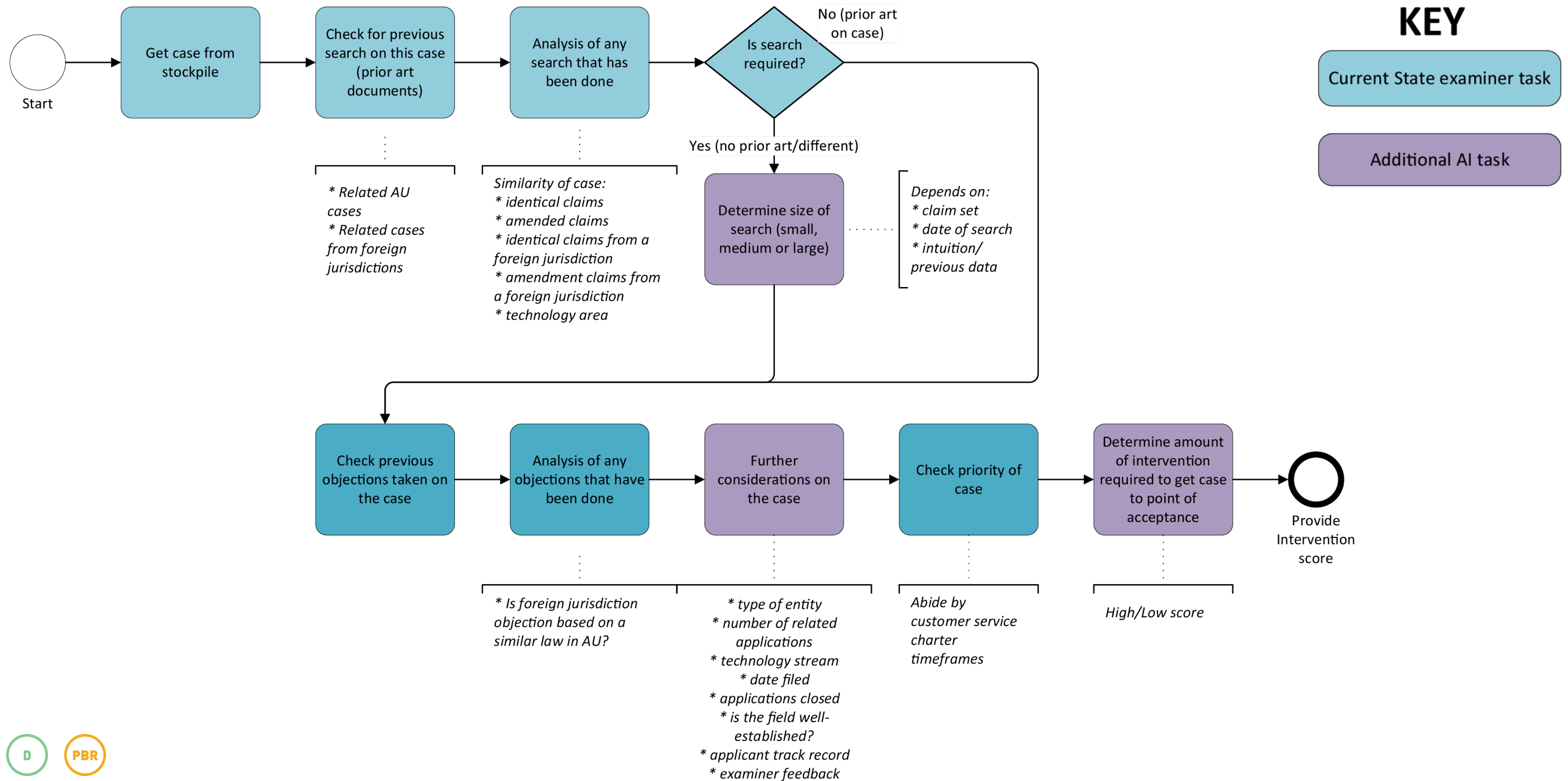
A service using NLP and ML to perform sort applications by allocating IPC main-group level information



Direction to Request Examination: Outcome Based Direction (OBD)



Section Work Allocation: Examination Risk and Complexity Modelling (ERCM)

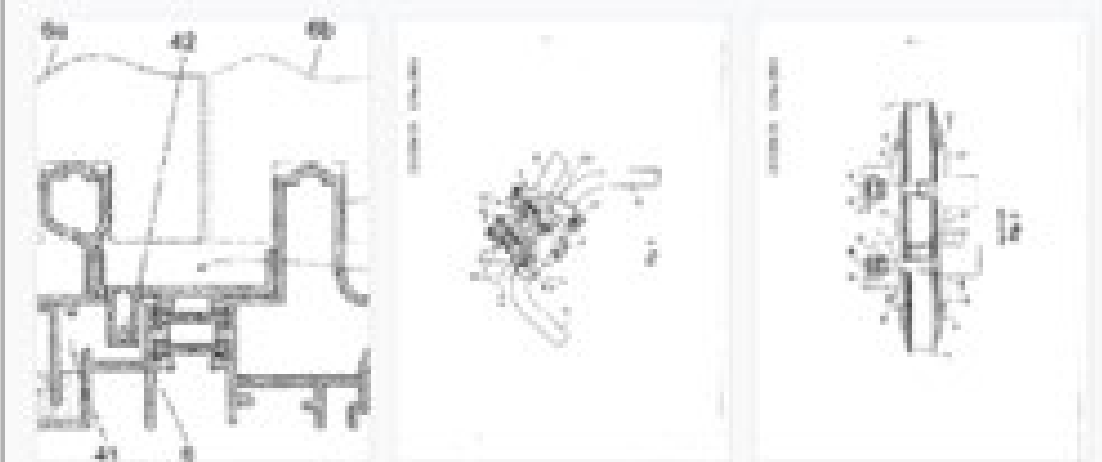


Exam: Automated Preliminary Search Tool (APST)

OPI AU2015200123A1 - SUSPENSION FOR BABY PUSHCHAIRS

Abstract
A suspension system in the form of a single unit for the two wheels of the baby pushchair, generally the two rear wheels, with independent damping for each of them. The characteristic feature of this suspension is that it has a block attached to the chassis of the pushchair that comprises two suspension elements preferably one beside the other, each of which is linked to the corresponding pushchair wheel support and acts on the wheel in question independently from the other suspension element. This suspension layout means that a movement in the left wheel of the pushchair, for example when encountering a pothole or obstacle in its way, it is dampened by the left side suspension element, so that said movement is not transmitted to the right side of the pushchair and vice versa.

Priority Date 13 Jan 2014
Publication Date 30 Jul 2015
Applicants JANE S.A.
Inventors Manuel Jane Santamaria
CPC Invention B62B9/18, B62B7/04
CPC Additional B62B2301/20
CPC C-sets
IPC B62B7/00.
Family Members AU2015200123A1, US9132849B2, US201501972
External links Espacenet



Query: `asn=(JANE NEAR S.A.) AND inn=(Manuel NEAR Jane NEAR Santamaria)`

Search: (Applicants **AND** Inventors)

Applicants

JANE S.A.
 JANE SA

Inventors

Manuel Jane Santamaria
 MANUEL JANE SANTAMARIA

CPCs

B62B9/18
 B62B7/04
 B62B2301/20

IPCs

B62B7/00

1 search result on this page is hidden as it corresponds to the current application and its family members.

Showing 1 to 25 of 38

Publication	Priority Date	Pub. Date	Title	Applicants	Inventors	CPC	IPC	Claim Relevance
EP2279904A2	31 Jul 2009	02 Feb 2011	Device for retensioning the straps used in child seats	JANE S.A.	Manuel Jane Santamaria	B60N2/2803 B60N2/2884	B60N2/42 B60N2/28	☆☆☆☆☆
MX2007004200A	12 Apr 2006	27 Nov 2008	A DEVICE FOR REMOVABLY FITTING TO PRAMS CARRYCOT SEATS AND CARRYCOTS BEING PROVIDED WITH ARTICULATED HANDLE	JANE S.A.	MANUEL JANE SANTAMARIA	A47D13/02 B62B7/142	A47D13/02	☆☆☆☆☆
US7681894B2	14 Feb 2006	23 Mar 2010	Device for fitting seats and the like to the chassis of baby carriages	Jane S.A.	Santamaria Manuel Jane	B62B7/142 Y10S24/51	B62B7/14 B62B7/00	☆☆☆☆☆

Exam: Family Member Analyser (FMA)

AU2015200123 Family Member Listing from AU, WO, US, EP, GB, CA, CN, JP, KR
 Found a total of 4 Family Members, and 1 Independent Claim for AU2015200123A1 - 1.

Office	Application Number	Publication Number	Publication Date	Relevance	Last Action Date	Last Action	FER Documents	Links	Objection Date	Objections
US	US14580860	US20150197267A1	16 Jul 2015	★★★★★	26 Aug 2015	Issue Notification			16 Mar 2015	N/A
EP		EP20150133849B3	15 Sep 2015	★★★★★						

Novelty/Inventive Step Objections US14580860 Non-Final Rejection (16 Mar 2015) View Objections View Claims

AU2015200123A1	Relevance	US20150197267A1
Claim 1	★★★★★	Claim 1

Relevance is based on the comparison of published independent claim pairs only

Claim Rejections - 35 USC § 102

The objections in this exam report extraction may be directed to an amended claim set that is not reflected in the adjacent claims table.

In the event the det...
 Claims 1, 2, and 4, as best understood, are rejected under 35 U.S.C. 102(a)(1) and (a)(2) as being anticipated by Thorne et al. (2008/0211206). In regard to **claim 1**, Thorne et al. (2008/0211206), said suspension is shown in Fig. 3, item 16.

Non-Final Rejection (16 Mar 2015) View Objections View Claims

Highlight Differences Highlight Common Text Relevance: ★★★★★

AU2015200123A1 Claim 1

Suspension for baby pushchairs, **characterised in that** it has a block that has two suspension elements acting independently, each of which is joined to the support of one of the pushchair wheels. This block is fitted to the chassis of the pushchair.

US20150197267A1 Claim 1

A suspension for baby pushchairs, **wherein** it has a block that has two suspension elements acting independently, each of which is joined to the support of one of the pushchair wheels. This block is fitted, to the chassis of the pushchair.



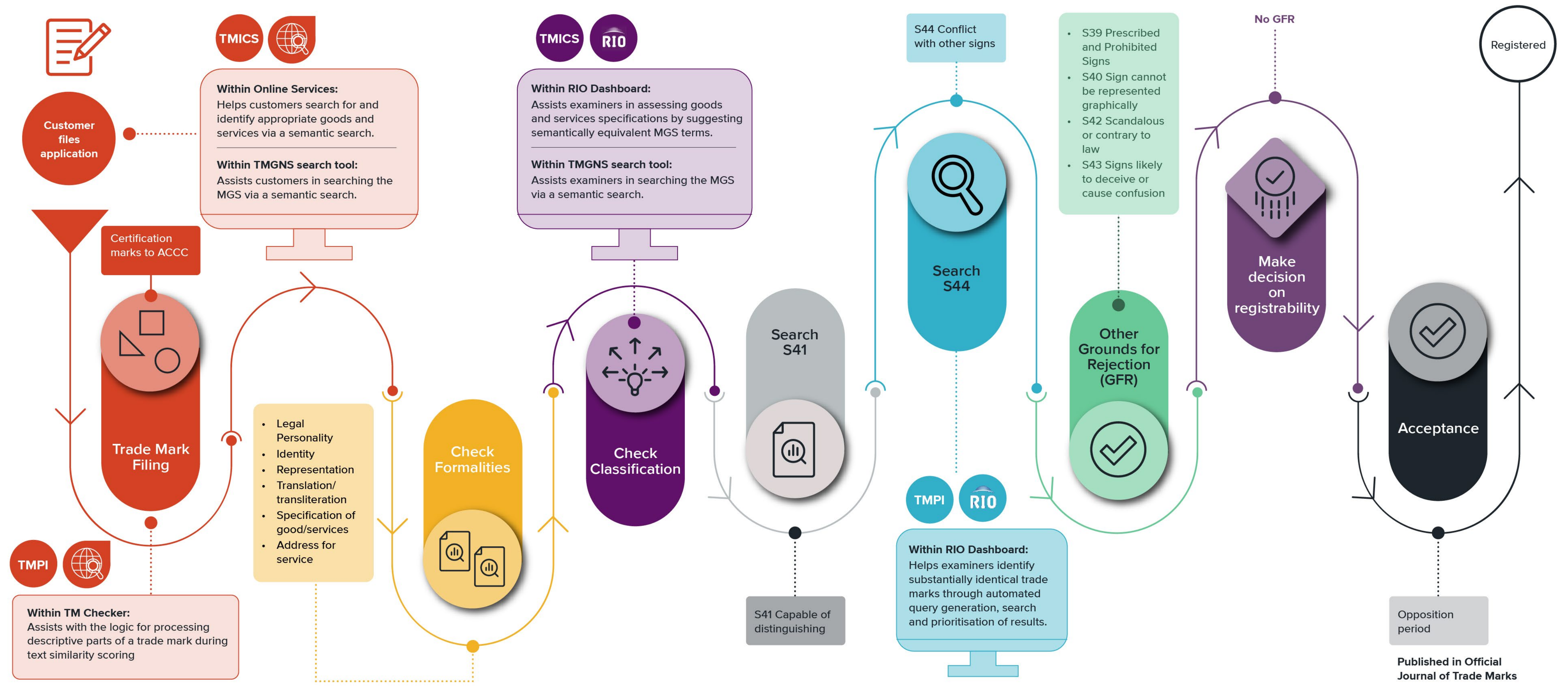
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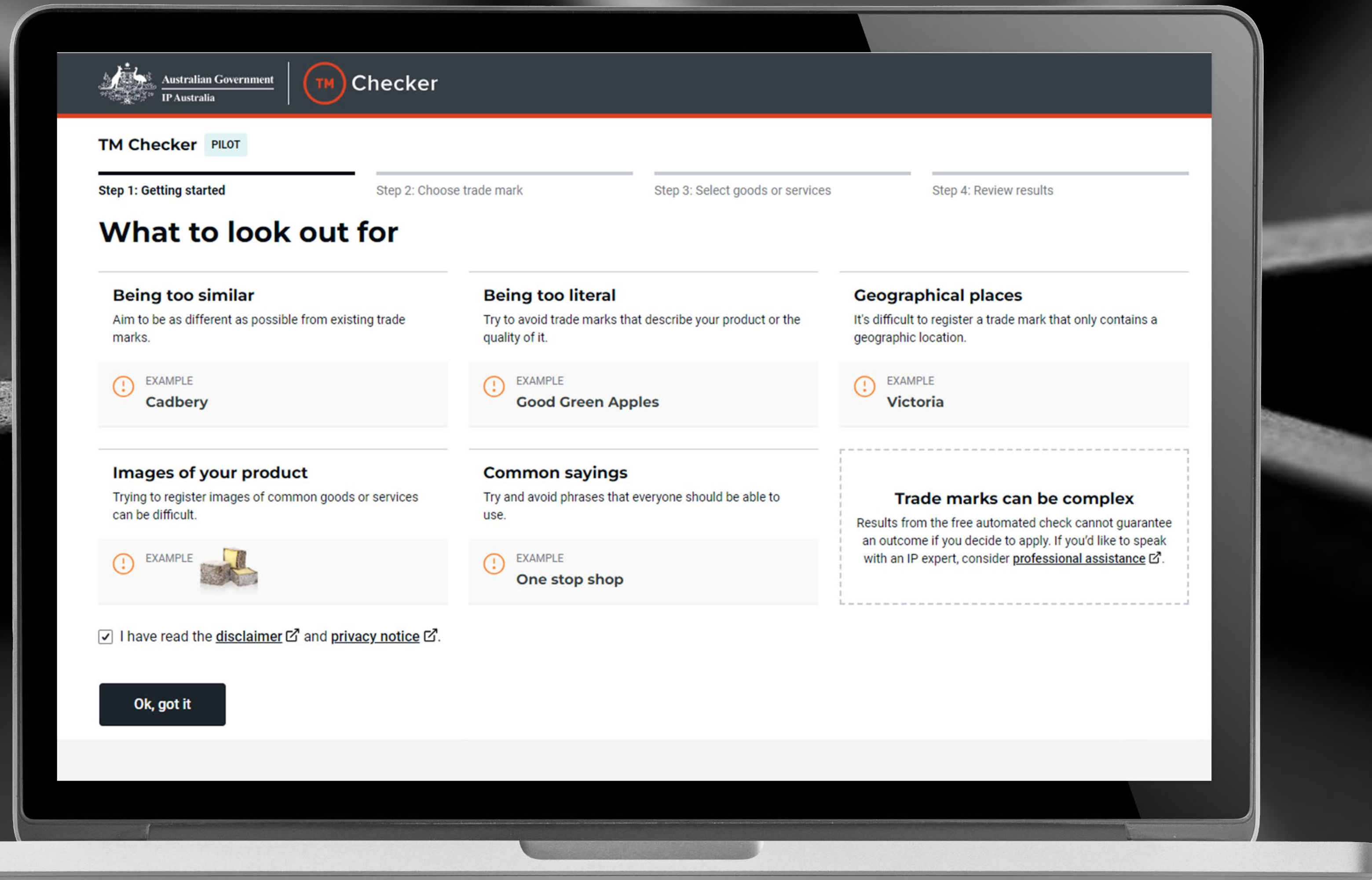
Trade Mark Process Automation



Trade Mark – Lifecycle map



TM Checker



Trade Mark International Classification System (TMICS)

MGS Semantic Search

Semantic search [Keyword search](#)

Search Term: Class Number:

Enter a list of class numbers like 1,2,3

Filter Method: Order By: Limit:

Only applies when class number is provided.

[Search](#)

Class	Description	Start date	End date	Last update	Score
41	kindergarten services [education or entertainment]	2023-11-22T00:00:00Z	9999-12-31T00:00:00Z	2023-12-04T13:40:45Z	★★★★★
41	nursery schools	2023-11-22T00:00:00Z	9999-12-31T00:00:00Z	2023-12-04T13:40:45Z	★★★★★
41	kindergarten services being education or entertainment	2023-11-22T00:00:00Z	9999-12-31T00:00:00Z	2023-12-04T13:40:45Z	★★★★★
41	pre-school education	2023-11-22T00:00:00Z	9999-12-31T00:00:00Z	2023-12-04T13:40:45Z	★★★★★

Trade Mark Precedent Identification (TMPI)

The image shows two overlapping browser windows from the RIO IP Australia dashboard. The left window displays the search filter interface, and the right window displays the search results.

Search Filters (Left Window):

- Word: Part AND
- Image: Part AND
- Class: Associated - current
- Status group: All
- Type: All types Kind: All kinds
- Exclude inactive: None
- Owner name: Owner name text
- Goods and services: Goods and services text
- Word phrase: Word phrase text

Search Results (Right Window):

5 results.

	Number	Trade mark	Class	Status	Extract
1	1414841	ADVISION	16	Removed - Not Renewed : Renewal fee not paid	+
2	958492	ADVISION	37, 41	Registered : Expired renewal possible	+
3	944062	ADVISION	9	Registered : Expired renewal possible	+

The third result includes a logo for 'ADVISION'.

Page-Footer: P TM D PBR



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Governance



Cognitive Futures (AI) Strategy

"Enhance service delivery by leveraging the power of cognitive technologies"

Initially developed in 2016-2017, most recently reviewed for 2022-2024.

Current focus:

- Text analysis/search (Natural Language Processing)
- Classification
- Image analysis/search

Key Objectives



Improve efficiency

Identify opportunities to be more efficient and effective in our business processes to drive value for customers



Enhance quality

Improve the quality of our products and reduce errors in the administration and examination of IP rights



Develop greater insights

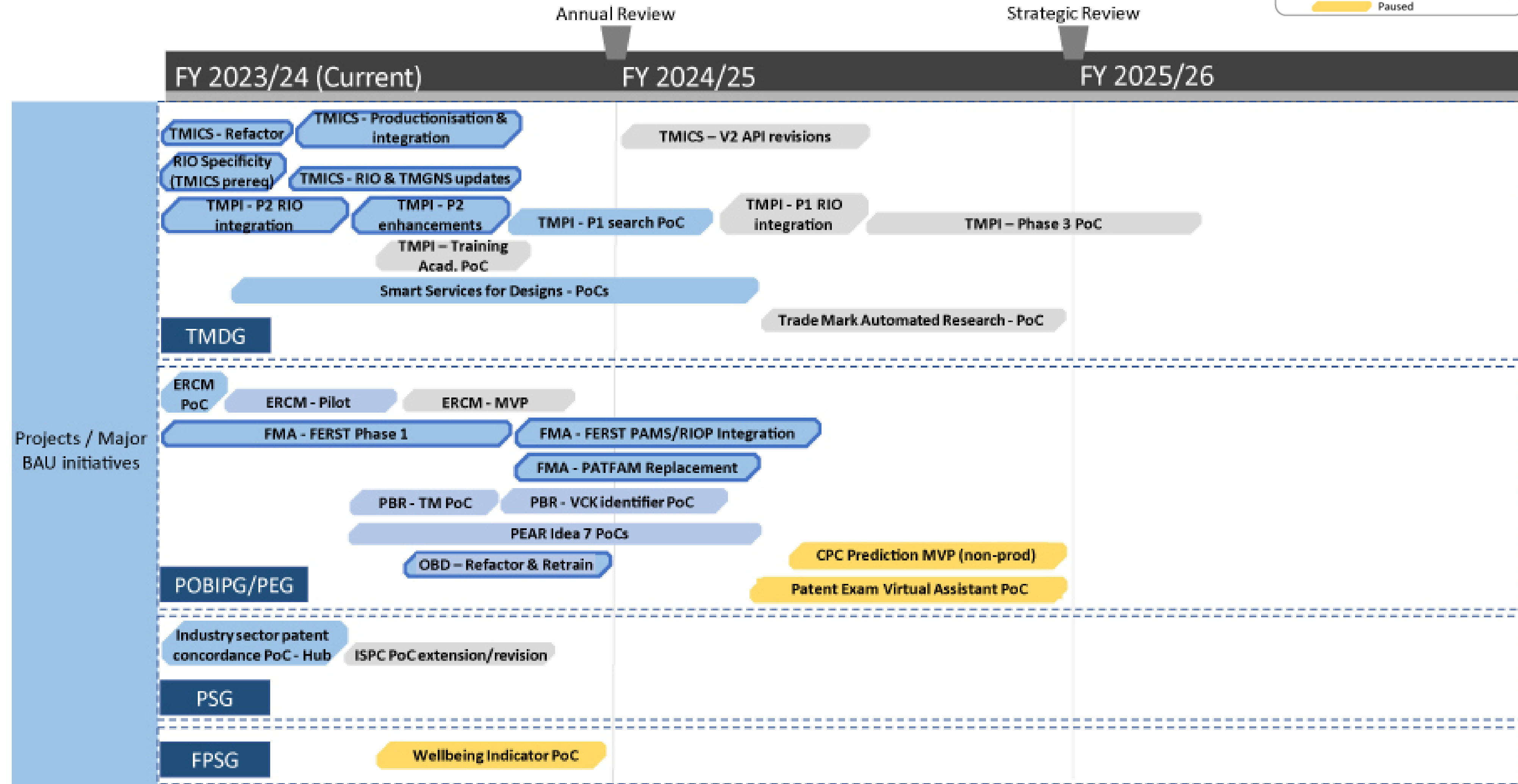
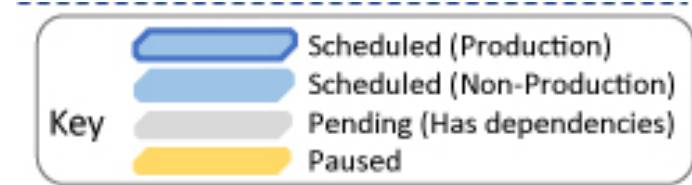
Leverage data assets to better serve our customers and inform our staff



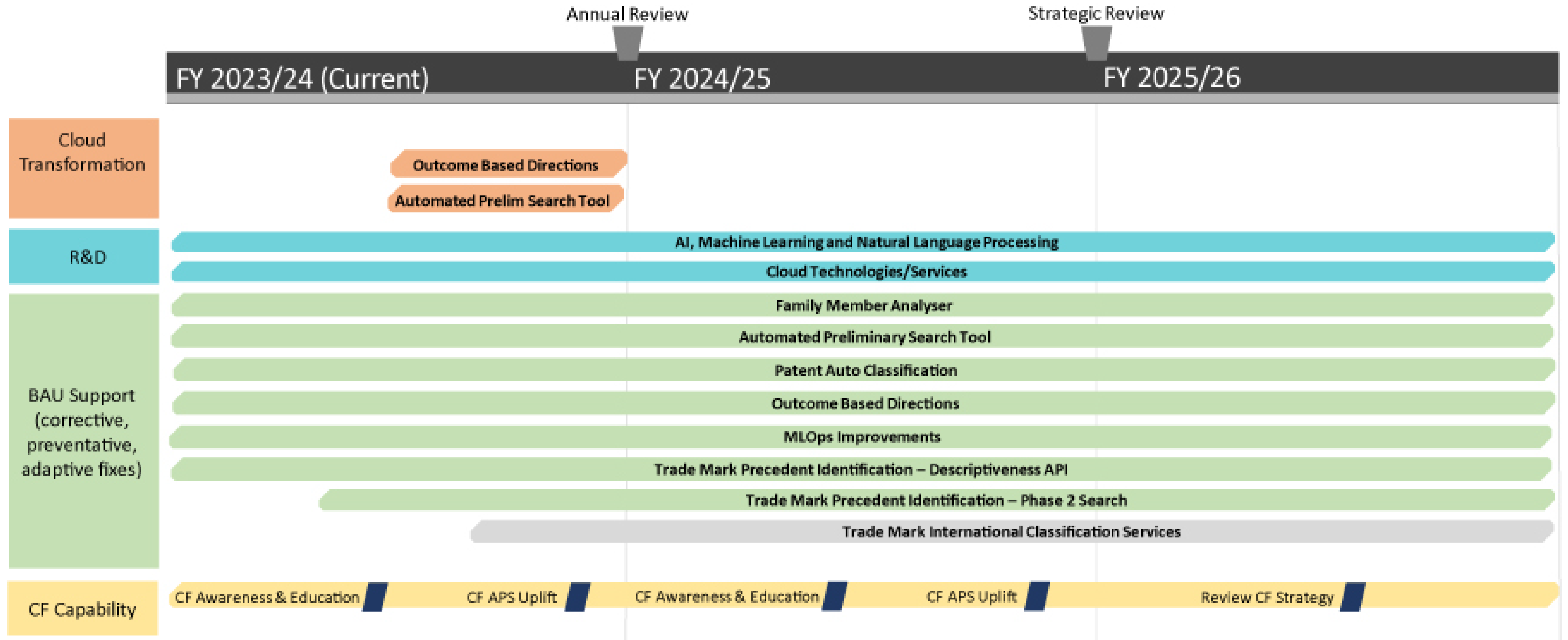
Build organisational capability

Equip our workforce with the knowledge and skills to derive optimal value from cognitive computing systems

Cognitive Futures (AI) Roadmap



Cognitive Futures (AI) Roadmap



Automated Decision Making Framework & Policy

Created in 2018. Currently under review.



IP Australia's legal obligations relating to automated decision-making (ADM) systems



Global best practices for government regulation of ADM systems, including business efficiencies



Incorporation of recommendations into a revised framework and policy





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Challenges



INTERNAL

- Maintaining good governance
- Meeting legislative requirements
- Coordinated implementation strategies
- Finding the correct level of transparency for ADM use with customers and stakeholders



EXTERNAL

- Keeping internal policies/frameworks aligned with;
 - ongoing technology developments
 - global best practices for governance strategies
 - whole of government (Australia) advice and guidelines



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Where are we headed?

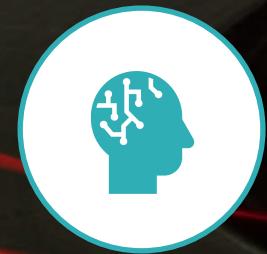
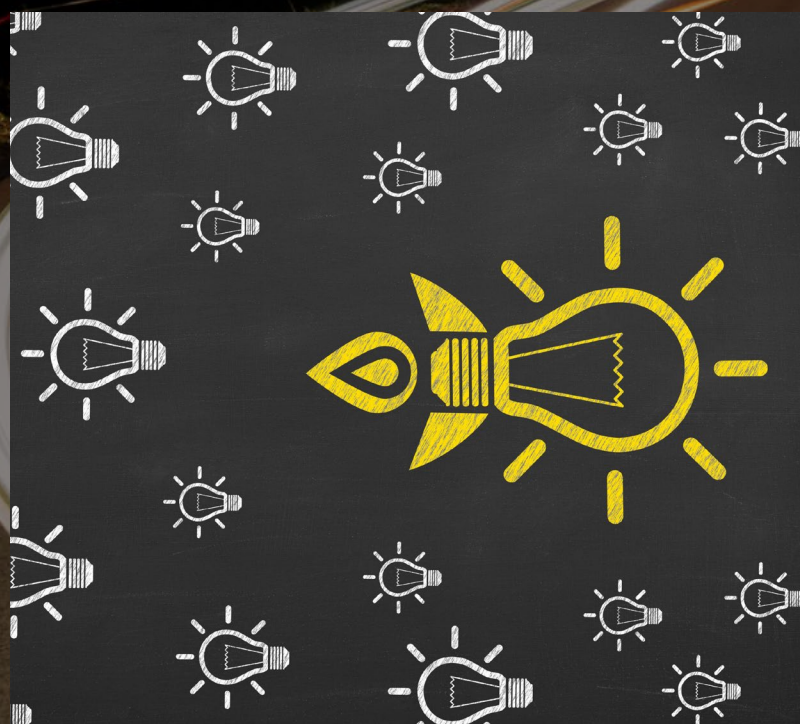
IP Australia are actively taking steps towards the adoption and implementation of safe and responsible AI. This includes addressing risks and policy areas, such as:

- Public trust
- Bias and discrimination
- Transparency and accountability
- Privacy
- Security
- Capability and maturity
- Pace of change.

Generative AI



November
2023



IPA
Ventures
team

- The GenAI working group is made up of staff across various business groups and knowledge areas to maximise its impact across the organisation.
- We have discussed use cases and are looking at a range of proof of concepts to implement GenAI in areas such as the creation of position descriptions, content, or code.
- As these use cases mature, the working group continues to make recommendations to the Executive for the implementation of these tools across the organisation.

Possible Initiatives

Classification

Assisted or full

Searching

- Synonym and search query generation
- Automated AI text, image, chemical searching

Specification analysis

- Formalities, clarity, lack of unity etc.
- Prohibited words, subject matter, traditional knowledge

Other initiatives

- Virtual assistant
- Improved technology forecasting



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 1300 65 1010 (9am-5pm)

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 twitter.com/IPAustralia

 linkedin.com/company/ip-australia

 youtube.com/user/ipaustralia

 instagram.com/ipaustraliaofficial/

