

CWS/10

## **Legal status and digital gazette = open data**

The idea, design and infrastructure one year prior to release

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23/11/2022 Mr. Jens P. Sollie, Business architect, Digital Services Dept.



# NIPO key data

Office

Office employes

250

Applications 2021

Trademarks 18000

Designs 1300

Patents 1600



Target groups

Industry,  
SMEs & Startups. 70%  
foreign applicants



Oslo-based

Ministry of Trade,  
Industry and fisheries



IT

IT Employees / consultants

24 /7 (p.t)

Services

Governance, infrastructure  
and functionality.



Target groups

All employees, especially  
examiners *External* –  
applicants, suppliers,  
vendors, partners



Budget

Appox 5 mill. Euro Smart  
€1,6 mill, 2022-24  
Digital Strategy



## Office and IT strategy

### We are an arctic country

- The polar circle at the middle



Norlys over Sor-Norge – Dagsavisen

Visit

Aurora Borealis, 2nd of November  
2022, Fredrikstad, Norway  
Please follow link for the big  
picture (copyright)

Increase business- and  
society benefit from  
intellectual property

Goal 1  
More rights

Goal 2  
Better use

# Key digital highlights: from present to future

- Modern infrastructure
  - mostly on prem, but also SaaS.
- Well working back office
  - based on Coexya framework and applications (Ptolemy/Accepto+)
- A wide range of digital services
  - Search with enhanced register view including documents
  - Image search (By Accepto)
- Utilizing government portals for secure digital communication
  - with residents (both person and company)
  - To become available with Eida-ID users

<https://services.patentstyret.no>

WIPO FO

The screenshot shows a web browser window with the URL [services.patentstyret.no/#/](https://services.patentstyret.no/#/). The page title is "Overview Digital services" with a subtitle "Shortcuts to all NIPO services". Navigation links include "ABOUT", "SERVICES", a globe icon, and "LOG IN". A blue banner at the top reads "New version of the Search Service. Detailed case view and My account". Below this, a section titled "Now initiated our cloud journey:" contains three bullet points: "Complete cloud readiness procedure", "Contributing to transform of digital communication platform to MS Azure", and "First open cloud services from office in pending project". The main content area shows a search interface with a search bar, a "new form" button, and a list of parties including "SOLLIE JENS PETT" and "PEPPERSTADMARKA VEL".

# Purpose:

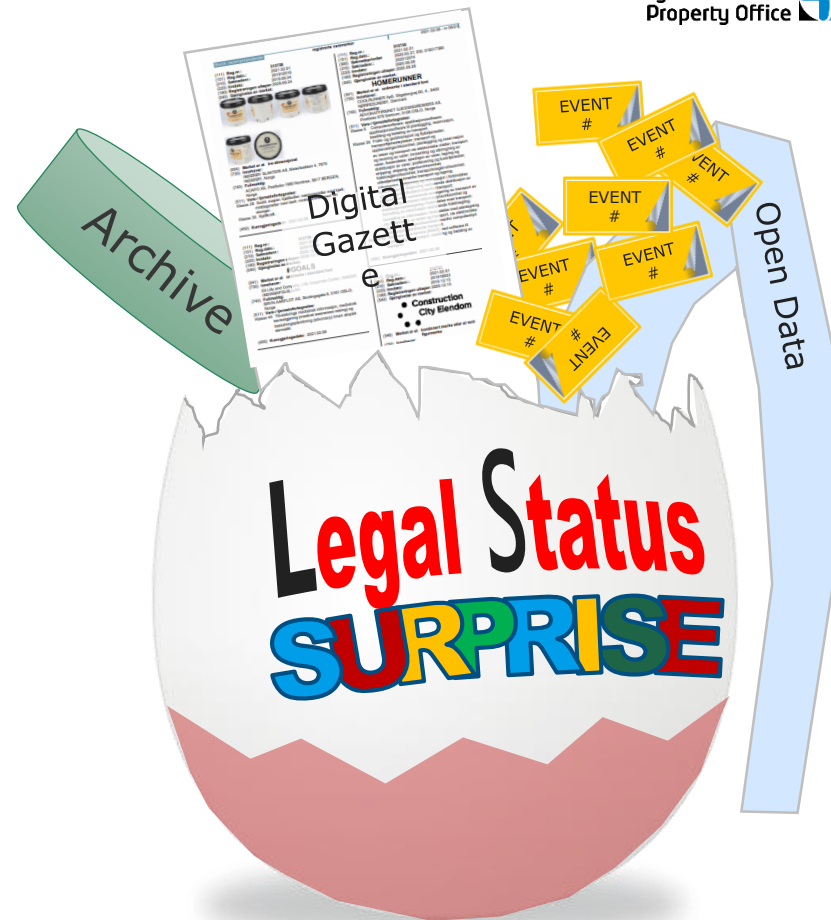
## Show our kinder surprise

NIPO is preparing for sharing quality data. Quality also means **usable** and **trusted** data. NIPO is a small IPO with limited capacities. We need to create solutions that fulfils several needs.

This presentation aim to show the **status of our pending project** to use legal status records as the basis for several purposes.

In addition to giving the state, stage and reason for it, the standards (ST.27, ST.61, ST.87) allows for rich optional data. Data may also be presented as XML (ST.96).

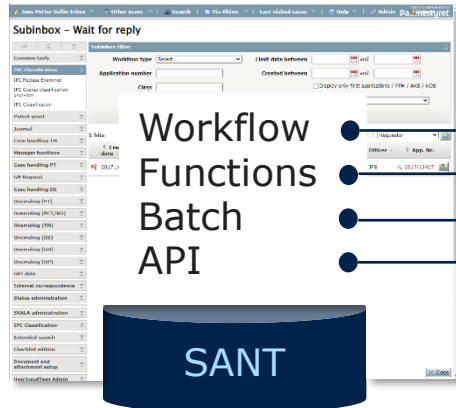
**Then, in addition** to being our standardized legal status register for patent, trademark and industrial designs, the solution will also be the source for standardized open data sets, our digital gazette, and our new archiving extract.



# The idea: Extract events including frozen register data

Triggers:

- National status
- Batch job
- Function(s)
- Publication



Workflow  
 Functions  
 Batch  
 API



Back office

- Event record
- LegalStat
  - **Publication**
  - **Register ext**
  - Bin/docs
  - State
  - Stage...
  - Dates...

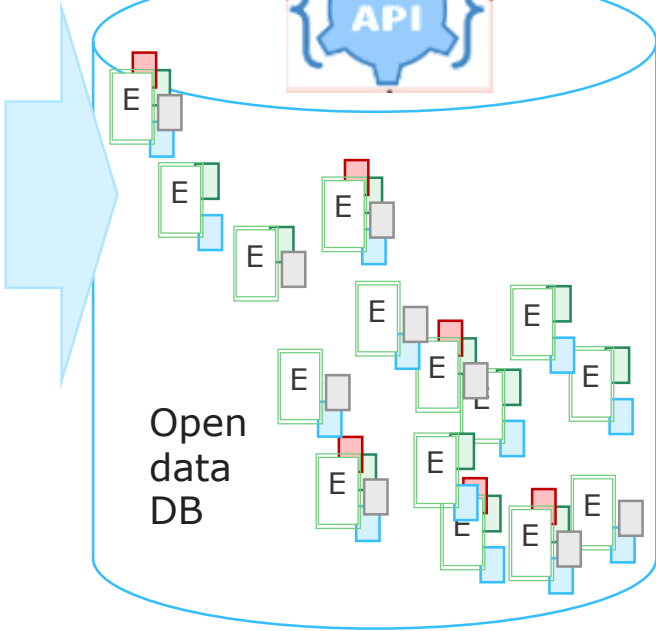
LS  
 data

Gz  
 data

Rg  
 data

BIN

4  
 Data  
 according  
 to rule



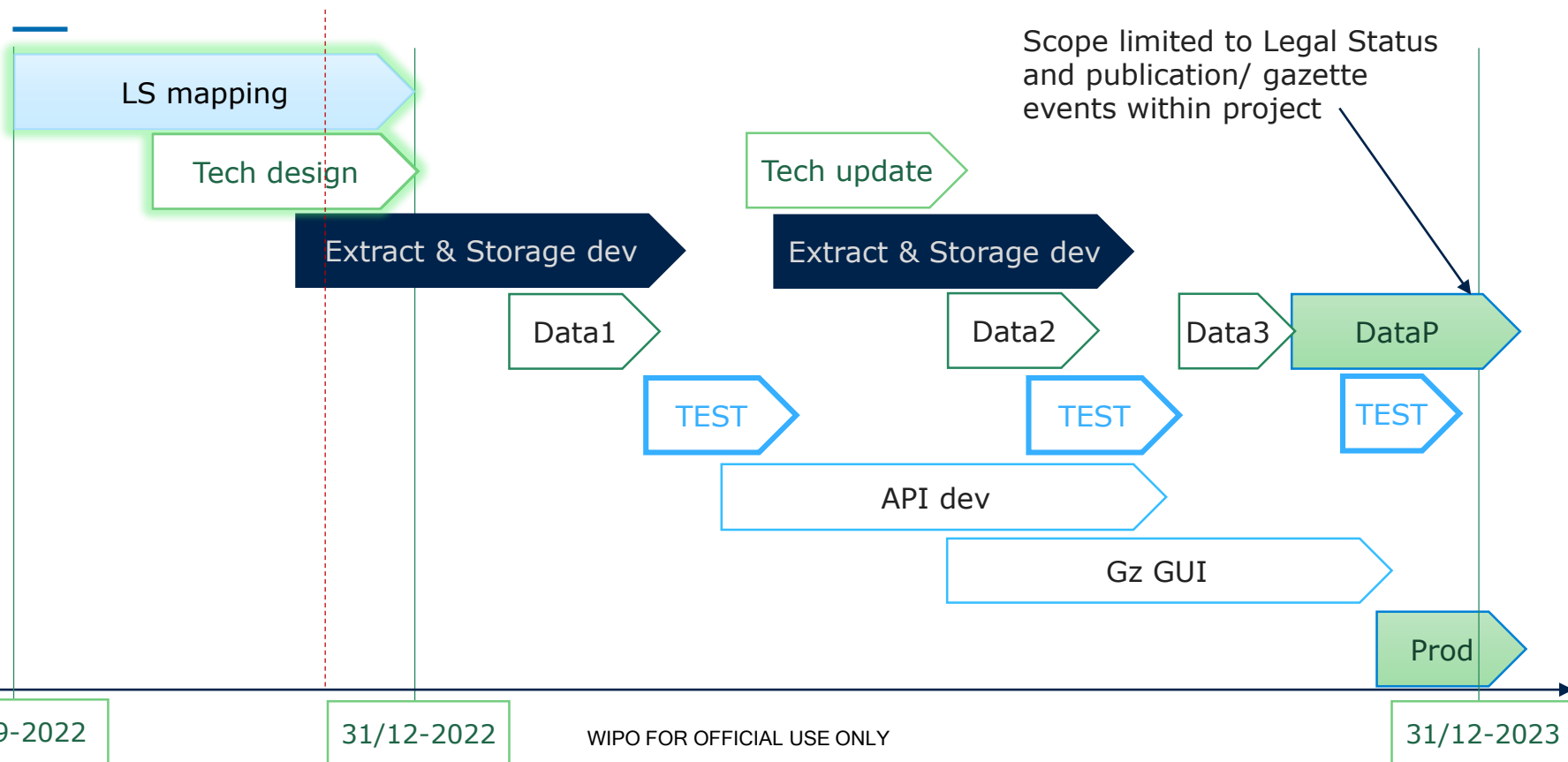
1  
 Event is  
 triggered !

2  
 A rule per  
 cat. event!

3  
 Extract  
 data

5  
 Store in new DB made to deliver  
 ST.27, ST.61, ST.87, ST.96 data,  
 also for digital gazette and open data

# Plan:







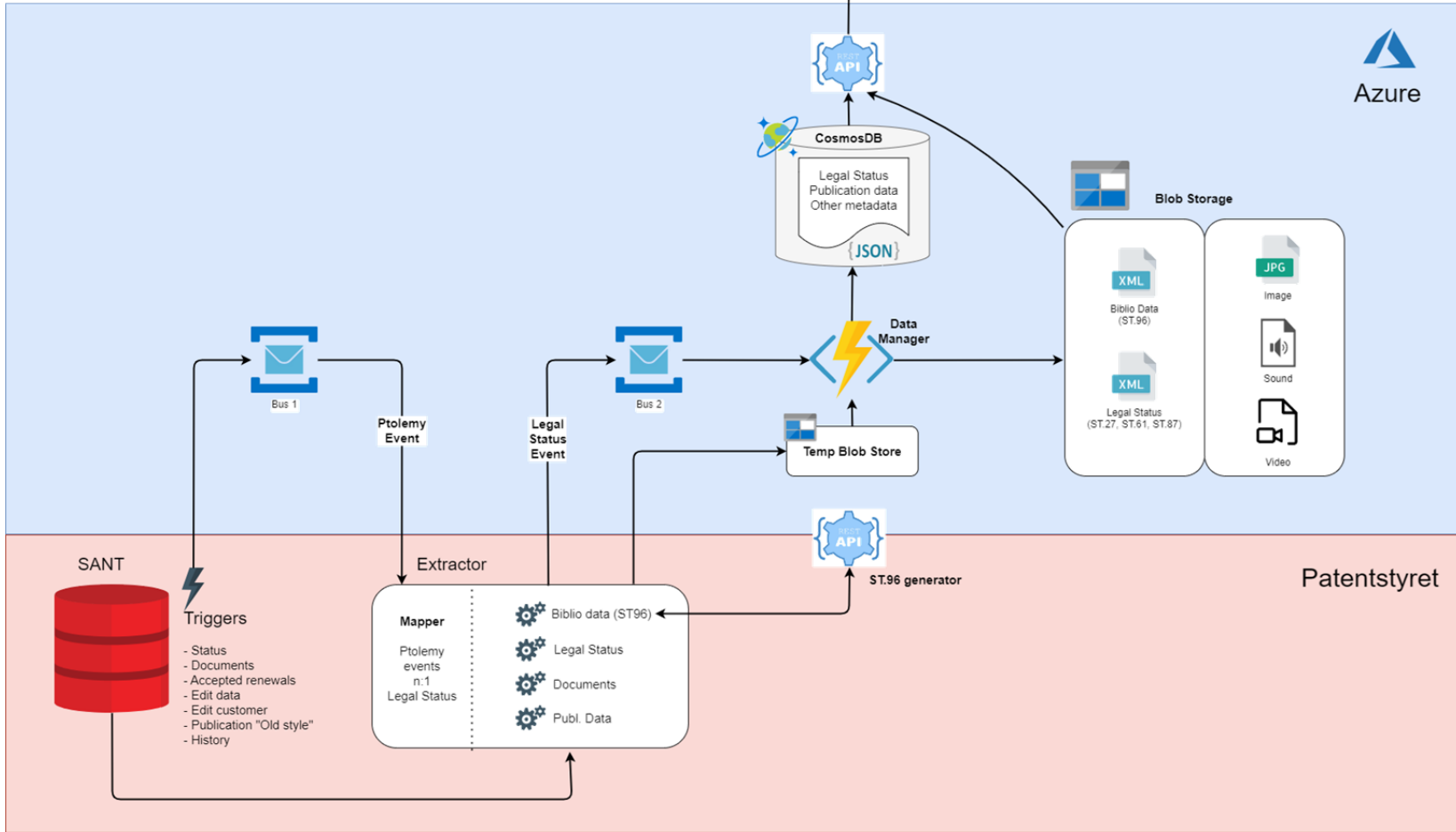
	A	B	C	D	E	F	G	H	
	Standard Event (ST.87)					IP OFFICE EVENTS (NIPO)		Country Code = NO	
	Code	Title		(Description)	National/regional event code(s) (if applicable)	National/regional event title(s) in English (Description(s) in English)	National/regional event title(s) in original language (Description(s) in original language)	Remark	Publication in O
60	D20*	Deferred examination resumed		(A deferred examination was resumed.)					
61	D21.	Rejection of application intended		(An IPO announced its intention to reject an application and not grant an IP right.)	DS 01005	First examination report with intention to refuse registration	Første utgående realitetsskriv sendt. Gjelder også int. registreringer som nektes fullstendig.	Disse bør undersøkes: Selv med fullstendig nektelse i første eller senere uttalelse kan det hende det ikke anses som en "intention to reject"?	
62	D21.				DS 01012	Second or later examination request with intention to refuse registration	Andre/senere realitetsuttalelse sendt. Gjelder også int. registreringer som nektes fullstendig.	Disse bør undersøkes: Selv med fullstendig nektelse i første eller senere uttalelse kan det hende det ikke anses som en "intention to reject"?	
63	D21.				DS 01015	Second or later examination request with partial refusal of registration	Andre/senere realitetsuttalelse om at utpekningen skal nektes delvis er sendt ut (Haag), jf. dsl. § 57 tredje ledd. Gjelder også ved muntlig forhandling. Brukes også ved brev om formelle mangler senere i saksbehandlingen.		
64	D22.	Grant of IP right intended		(An IPO announced its intention to register the industrial design and/or grant an IP right, provided that certain conditions are met within a time period prescribed in the applicable law. For example, in one jurisdiction, an IP right will be granted if an applicant pays a fee. In another jurisdiction, an IP right will be granted provided that no pre-registration opposition is filed within a certain period or such an opposition is inadmissible, rejected or withdrawn.)					
65	D23*	Examination continued following pre-registration review		(An examination of an application was continued following a pre-registration review.)					
66	D24*	Re-examination commenced		(A re-examination of the application was commenced.)	DS 01039	Decision to register, renewa or change, has been recalled due to obvious error, dsl § 33.	Beslutningen om å registrere designen er opphevet, og saken er til formyet behandling på grunn av en åpenbar feil ved registreringen, formyelse eller endring, jf. dsl. § 33.		
67	D25*	Formality examination commenced		(A formality examination of an application has commenced with or without a request by an applicant or a third party, in accordance with the applicable law prior to the registration of the industrial design and/or the grant of an IP right.)	DS 01003	Formality checks concluded with letter of formal deviations and/or missing fees.	Formaliakontroll utført. Inkluderer formaliabrev og fakturering av avgift i forbindelse med formaliakontrollen.		
68	Dxx	Search and examination							
69	E.	Pre-registration review request		This category is a group of events related to the request for a pre-registration review. It includes, for example, a request for a pre-registration opposition, pre-registration re-examination, or pre-registration limitation. It also includes when such a request was inadmissible, rejected or withdrawn. The events in this category may move an application <u>from the examination stage or the termination likely/termination stage into the pre-registration challenge stage.</u>	NA			Protest. Fra Filing/examination TIL Termination Likely	
77	Exx	Pre-registration review request							
		This category is a group of events which relate to the effective grant date of							

## Infrastructure = cloud

- Independent of back office
  - Ensures overlap
- Extract and storage by Coexya (FR)
  - The supplier of back office
- API and GUI's by own team
  - Standing policy, common tools
- Open cloud (Azure)
- Event or Service bus
- Cosmos DB («fast data»)
  - Smaller key data set for fast display, filters and search
- Blob storage («slow data») = complete data
  - Files and binaries, merged become data set files, or «extended view» from gazette



# Infrastructure design



# Data storage



CosmosDB Database



Blob Storage

## Legal Status

Structure defined in ST96 v6.0 for patent document PatentLegalStatusDataType\_V6\_0. Will be used as a common structure across Patent, Trademark and Design.

## Publication Data

Structure will be as flat as possible (key/value). Property names will be chosen from Tag names in ST96. Publication data will consist of two parts:

### Common:

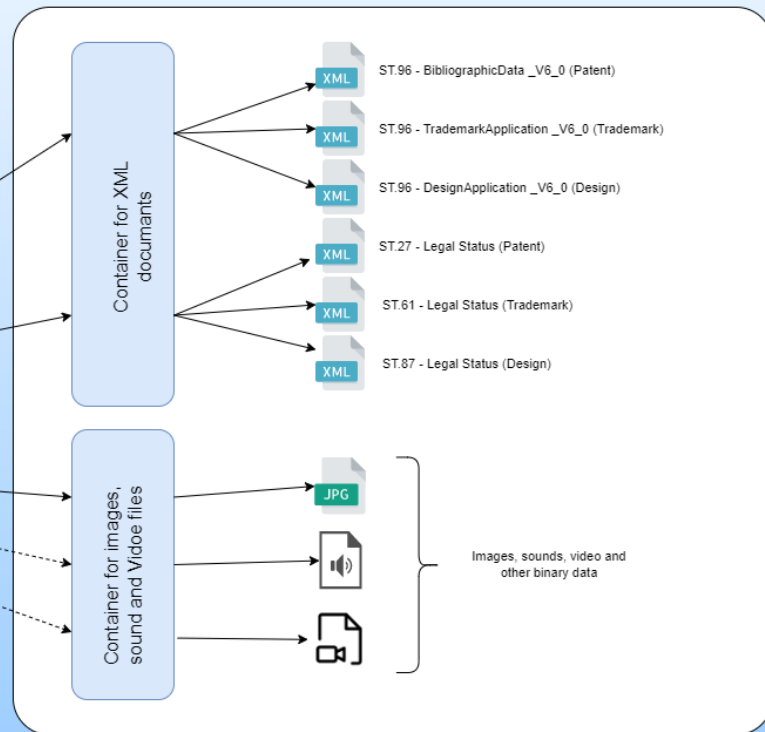
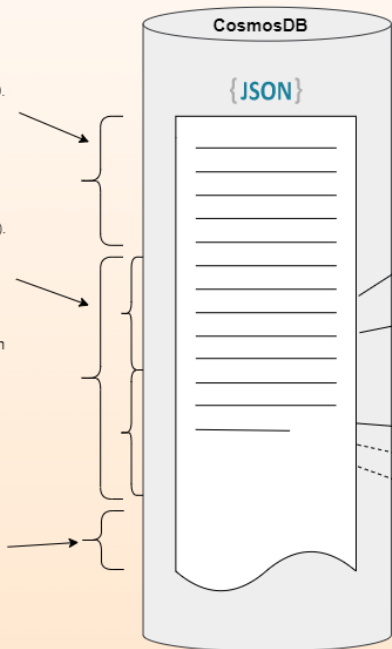
Will always be generated and contains key data common to all event types like application number, application date etc.

### Specific Publication Data:

Generated for actual publication events like publ date, gazette number, section etc.

## Other Data

If additional data need to be stored in the database.




Thank you!



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[nipo.no](http://nipo.no)

