



CEOS OpenSearch Project

WGISS-40

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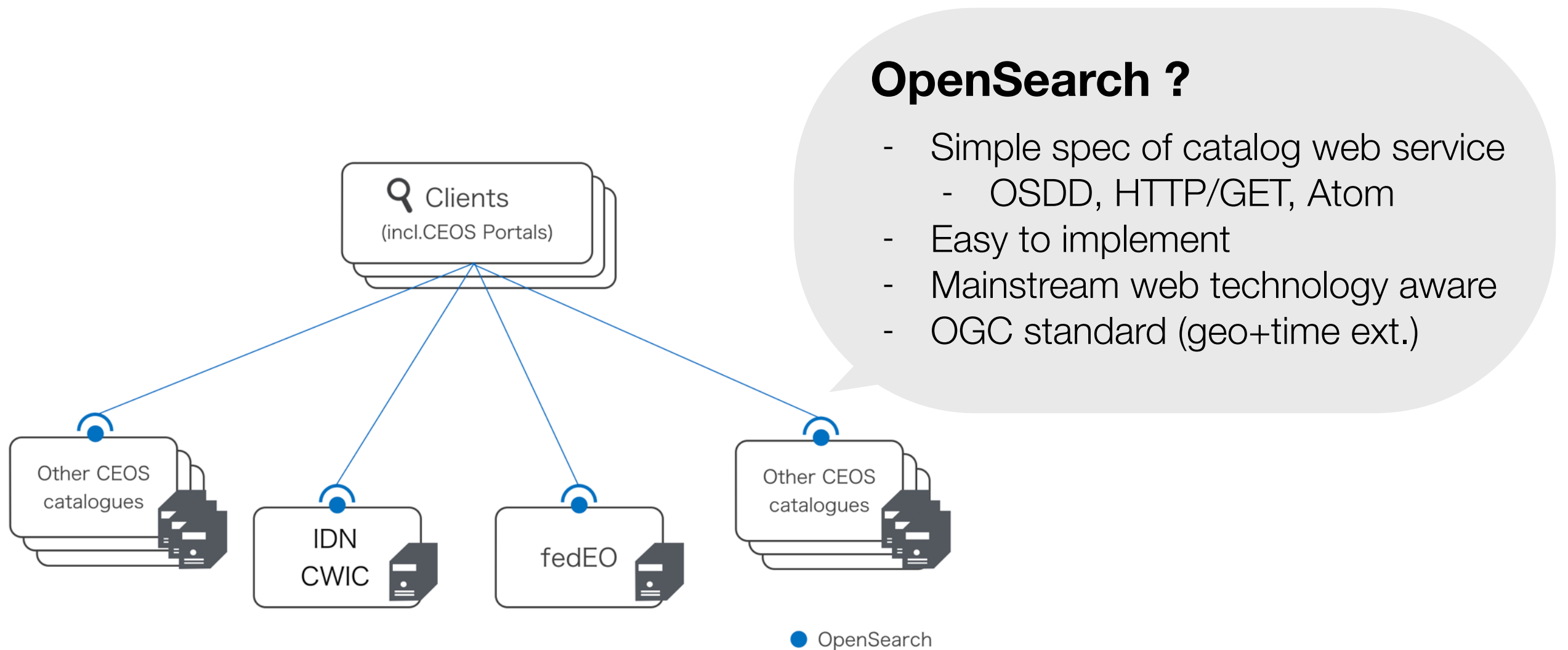
Jérôme Gasperi (CNES)

Agenda

- Status Yoshiyuki Kudo
- OpenSearch Implementation status report
 - **CNES** (Jerome Gasperi*)
 - **FedEO** (Yves Coene*)
 - **CWIC & IDN** (Covered in CWIC session)
- Project closure
- Discussion for the new project

CEOS OpenSearch Project

Establish **OpenSearch Best Practices** of CEOS Catalog systems



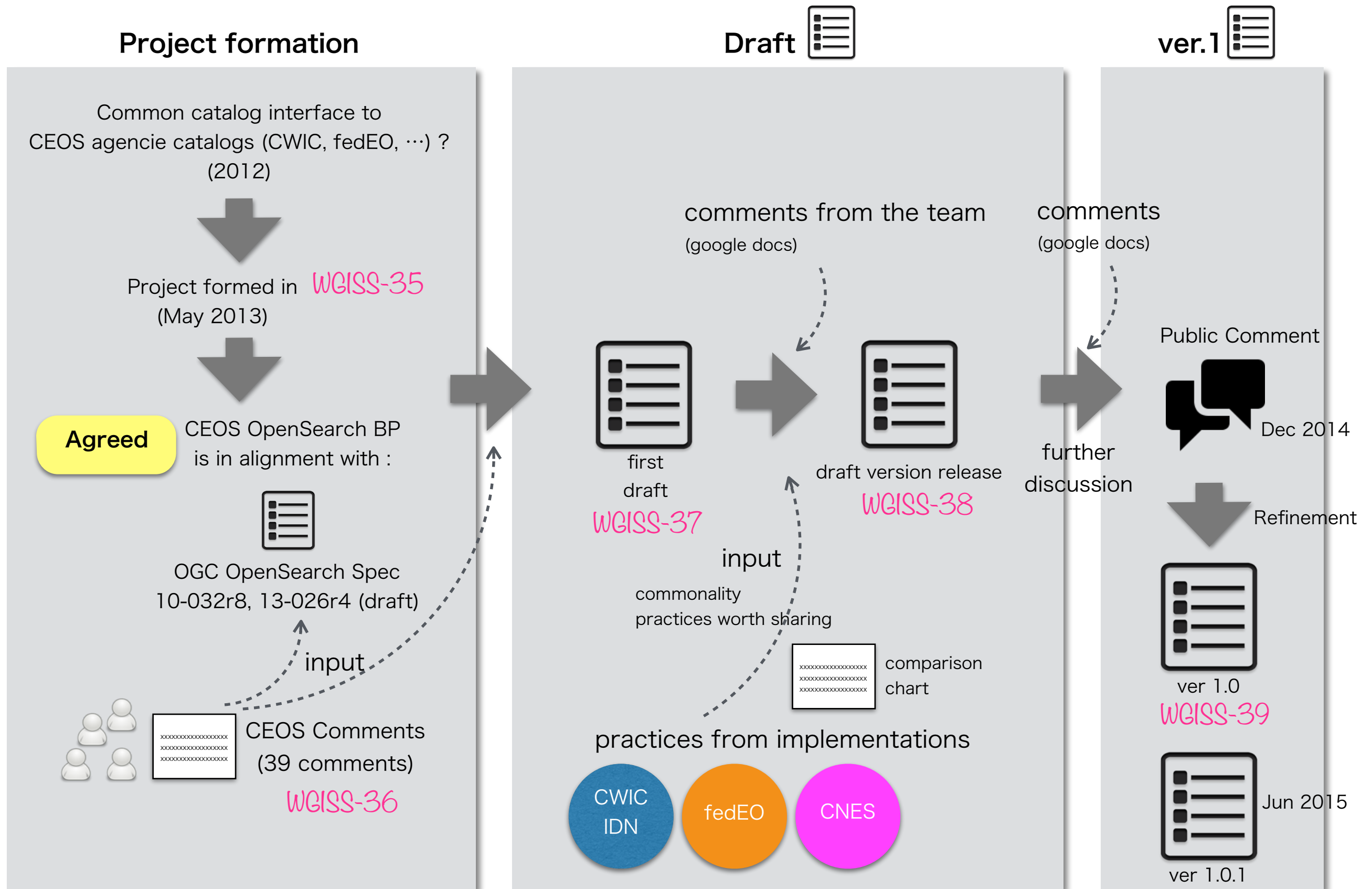
Purpose



Why
Best Practice ?

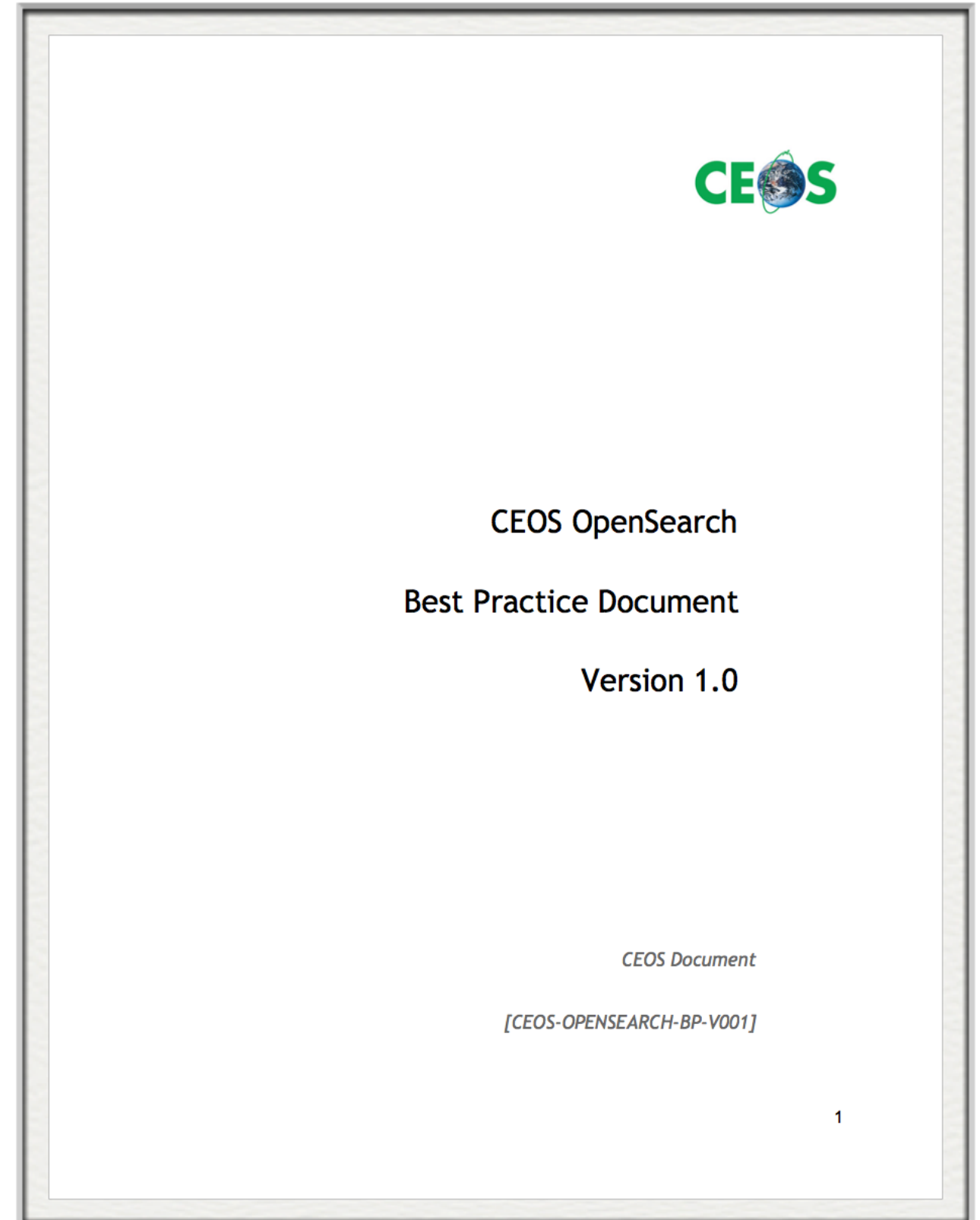
- **Promote the use of the OpenSearch** standard as a means of data discovery for Earth Data providers
- **Define the expectations and requirements** of candidate OpenSearch implementations
- **Remove ambiguity** in implementation where possible
- **Facilitate the aggregation of results** between disparate Earth Data providers via OpenSearch common standards
- Allow for clients to **access search engines** via an OpenSearch Description Document (OSDD) **with no a priori knowledge of the interface**
- Facilitate **smooth integration** between related OpenSearch implementations, such as a dataset resource collection that refers to granule resource collections from another provider

The trail ...



CEOS OpenSearch Best Practice Document

- 40+ pages
- **17 Best Practices**
 - Based on Implementations in CEOS agencies
 - Classification
 - requirement
 - recommended
 - optional
- Example codes



<http://ceos.org/ourwork/workinggroups/wgiss/projects/opensearch/>

17 Best Practices

ID	Category	Title	Classification
001	Two step search	Support of two step search	Recommended
002	OSDD	Support of OpenSearch Parameter Extension (Draft 2)	Recommended
003		rel attribute of the URL in OSDD	Recommended
004	Compliance Declaration	CEOS OpenSearch Best Practice identifier	Recommended
005	Search Request	Supported search parameters	Requirement
006		Multiwords for searchTerms	Recommended
007		Use of startIndex over startPage	Recommended
008		Search with geo:name	Recommended
009		Output encoding format in search URL	Optional
010	Search Response	Output encoding format support (atom)	Requirement
011		Support of dc:identifier returnable and geo:uid queriable	Requirement
012		Metadata representation in search response	Recommended
013		atom:summary	Recommended
014		GeoRSS	Recommended
015		Browse Image	Recommended
016		Data access	Recommended
017	Exceptions	Exception codes	Recommended

CEOS OpenSearch Best Practice Document

Version 1.0 published

(May 29, 2015)



Version 1.0.1* published

(Jun 10, 2015)



* Change : Recommendation of startIndex over startPage (CEOS-BP-007)

Best Practice and Developer guide document

- Dev guide ?
 - Originally developed by NASA
 - Proposal of making it a “CEOS document” at WGISS-39
- Now we have 2 documents : BP and Dev guide
 - Overlaps
 - Better to reorganize
 - Purpose, Target readers
 - Merger (where appropriate)
- **Propose the dev guide discussion happening in the context of Best Practice document update (V2.0) in the new effort/project**

Current OpenSearch Project closure

- Close the current OpenSearch project with the fulfillment of the project goal (publish BP v1.0)

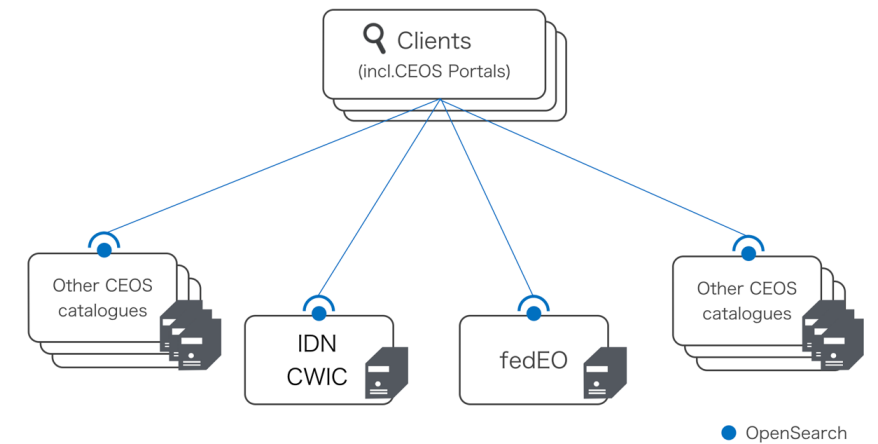


Discussion for the new project

Document	Focus
BP v1	recommendations for interoperability (CEOS "standard flavor")



Document	Focus
BP v2	Example : <ul style="list-style-type: none"> • Ranking / relevance score • Search results aggregation at client side • GeoJSON as an output encoding format • Recommended Schema.org itemtype/itemprop • Alignment with advanced technologies such as semantic web • New recommendations from NASA, ESA, CNES...
Dev guide	



Relevancy in the context of CEOS, WGISS ?
 Need project plan (goal) and lead !