

IVOA Registry statistics per country

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Purpose of the study



IVOA Exec Action to determine how the VO protocols and services are spread worldwide

- Within IVOA members countries and outside

Based on VO Resources, in particular Data Access Services registered in the IVOA Full Searchable Registry

- Managed Authorities
- TAP, ConeSearch, SIAP, SSAP, HiPS list, HiPS files

This presentation will show an attempt to provide such information coming from the Euro-VO Registry

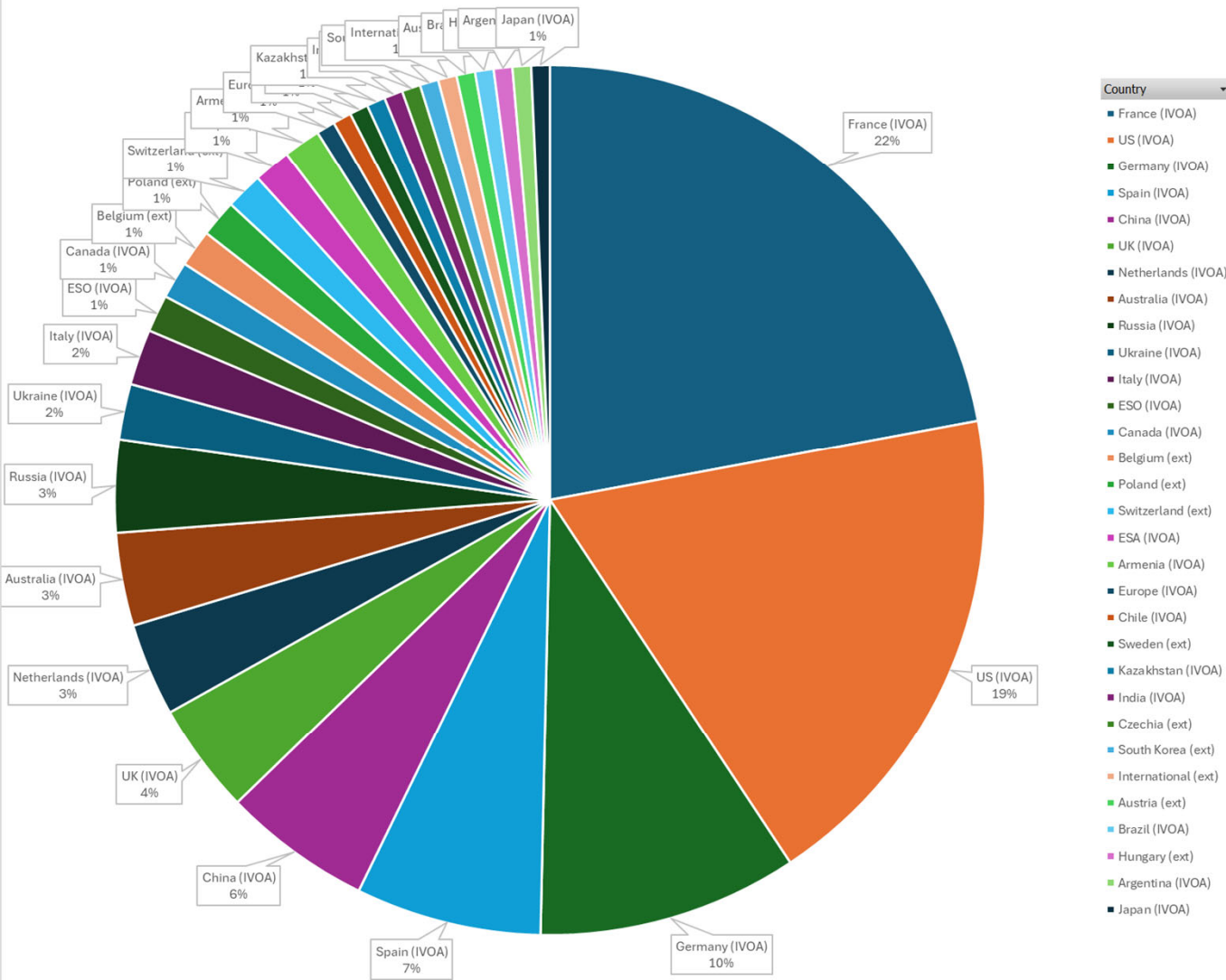
Caveat: the study only looks at the Quantity of the VOResources, not their Quality/Compliance



IVOA ▾

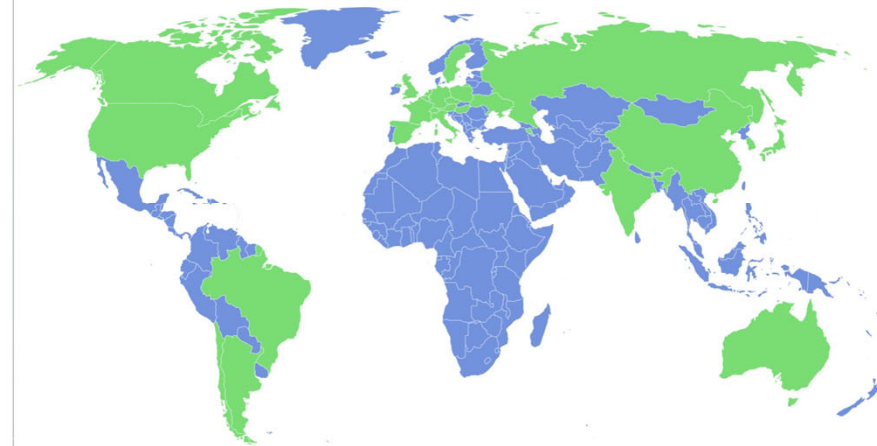
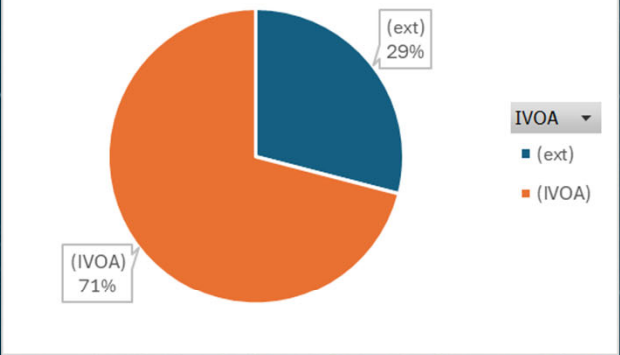
Sum of Managed Authorities

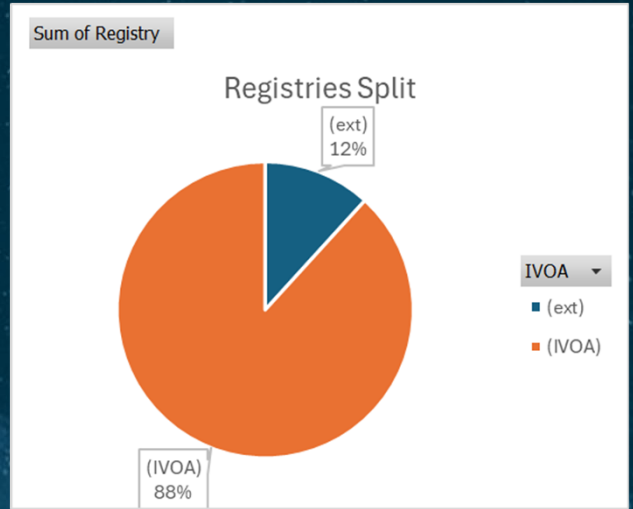
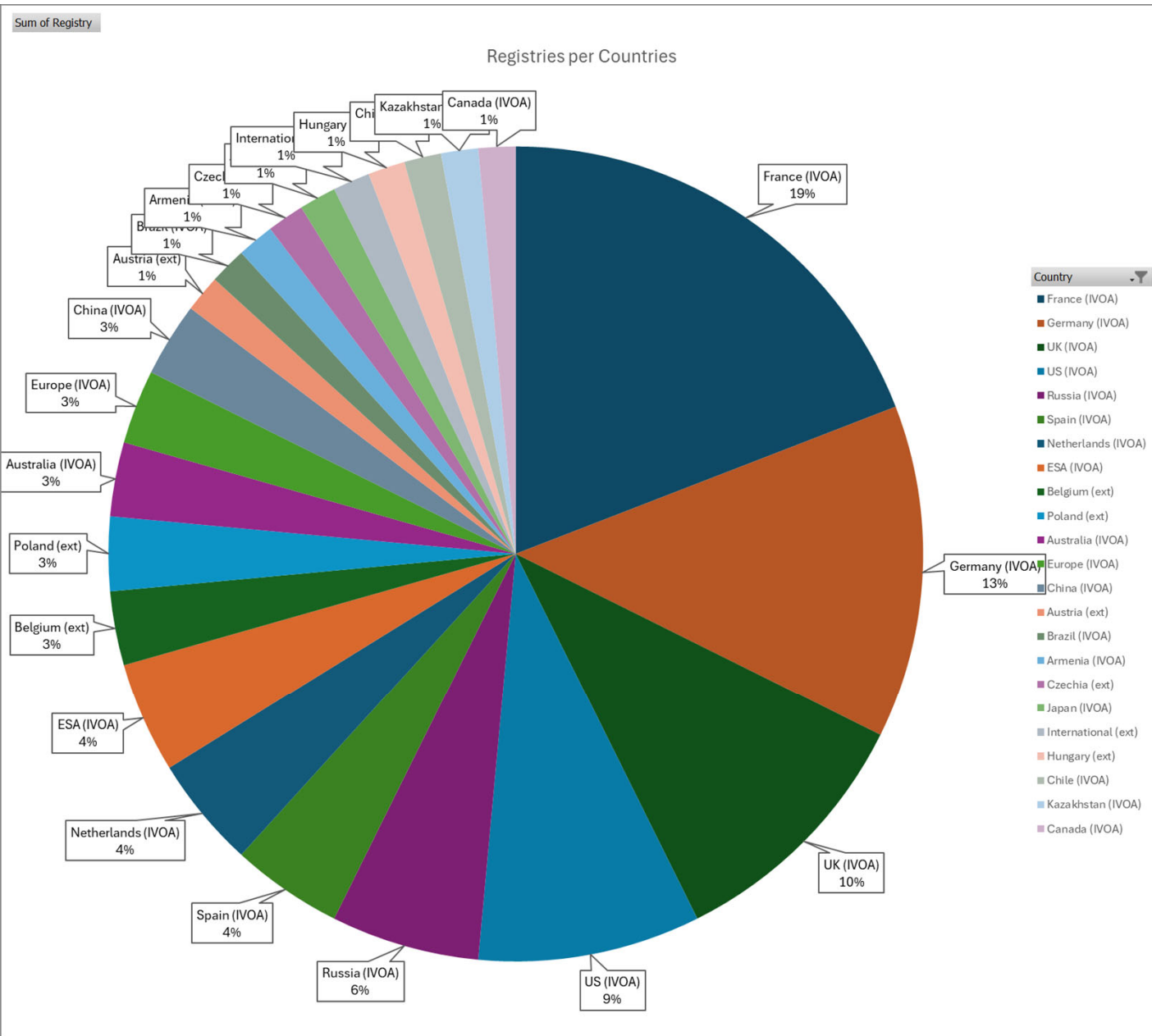
Managed Authorities Split per Countries



Count of IVOA

Managed Authorities Split

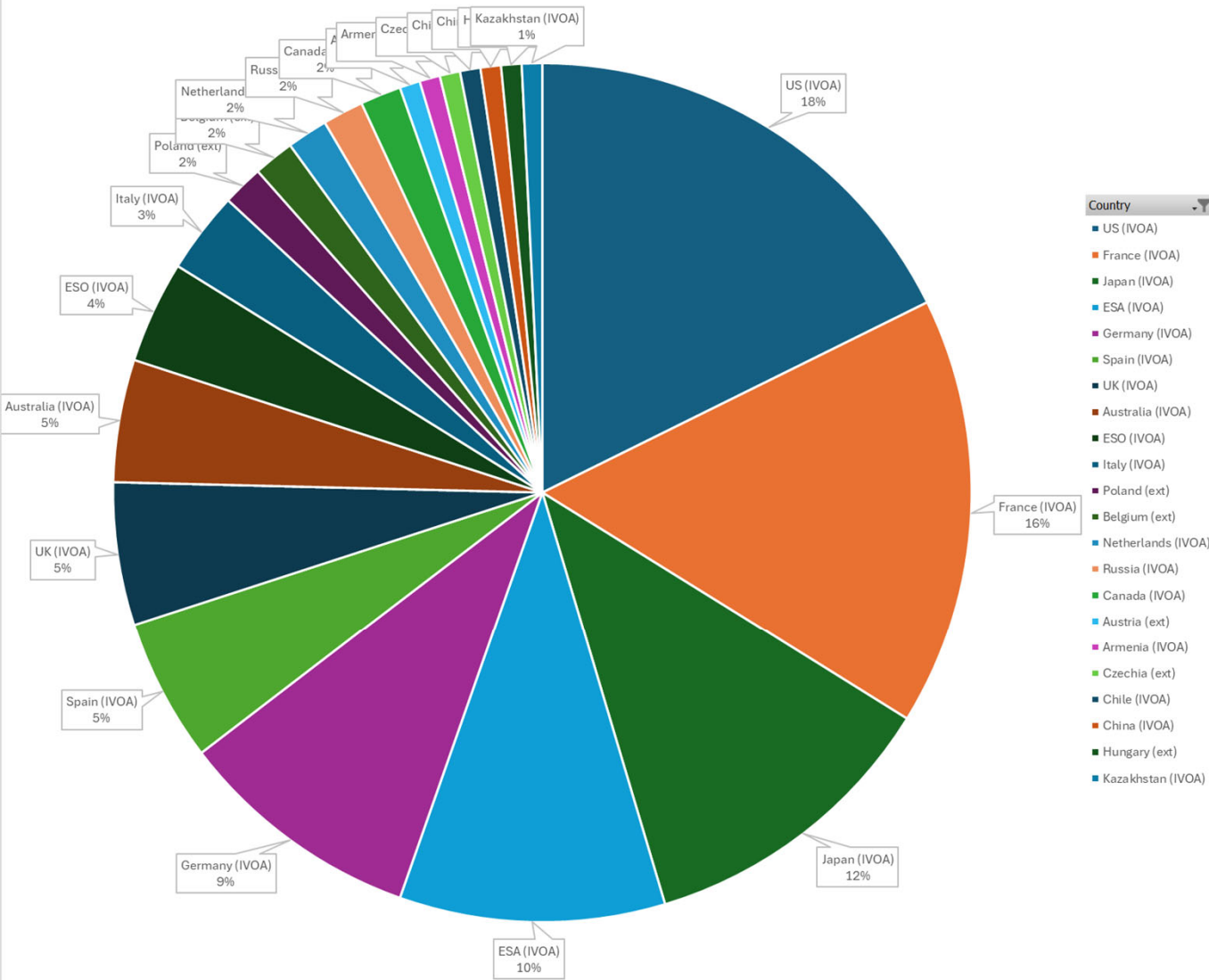




TAP ▾

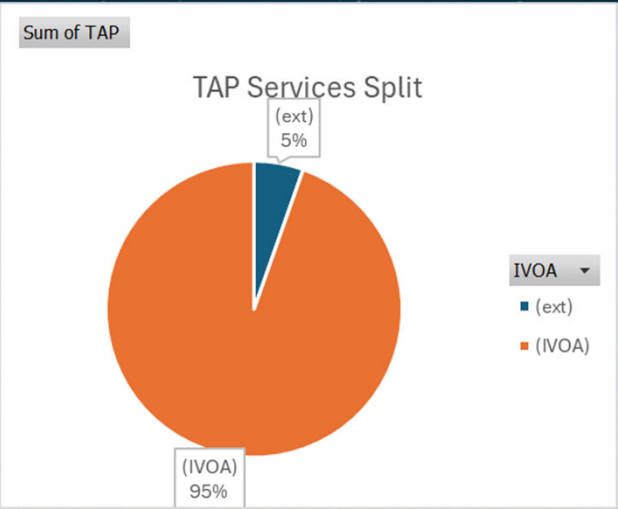
Sum of TAP

TAP Services per Countries



Country ▾

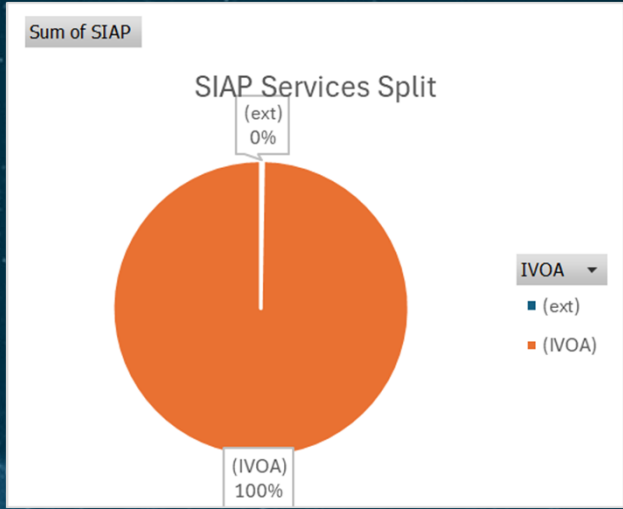
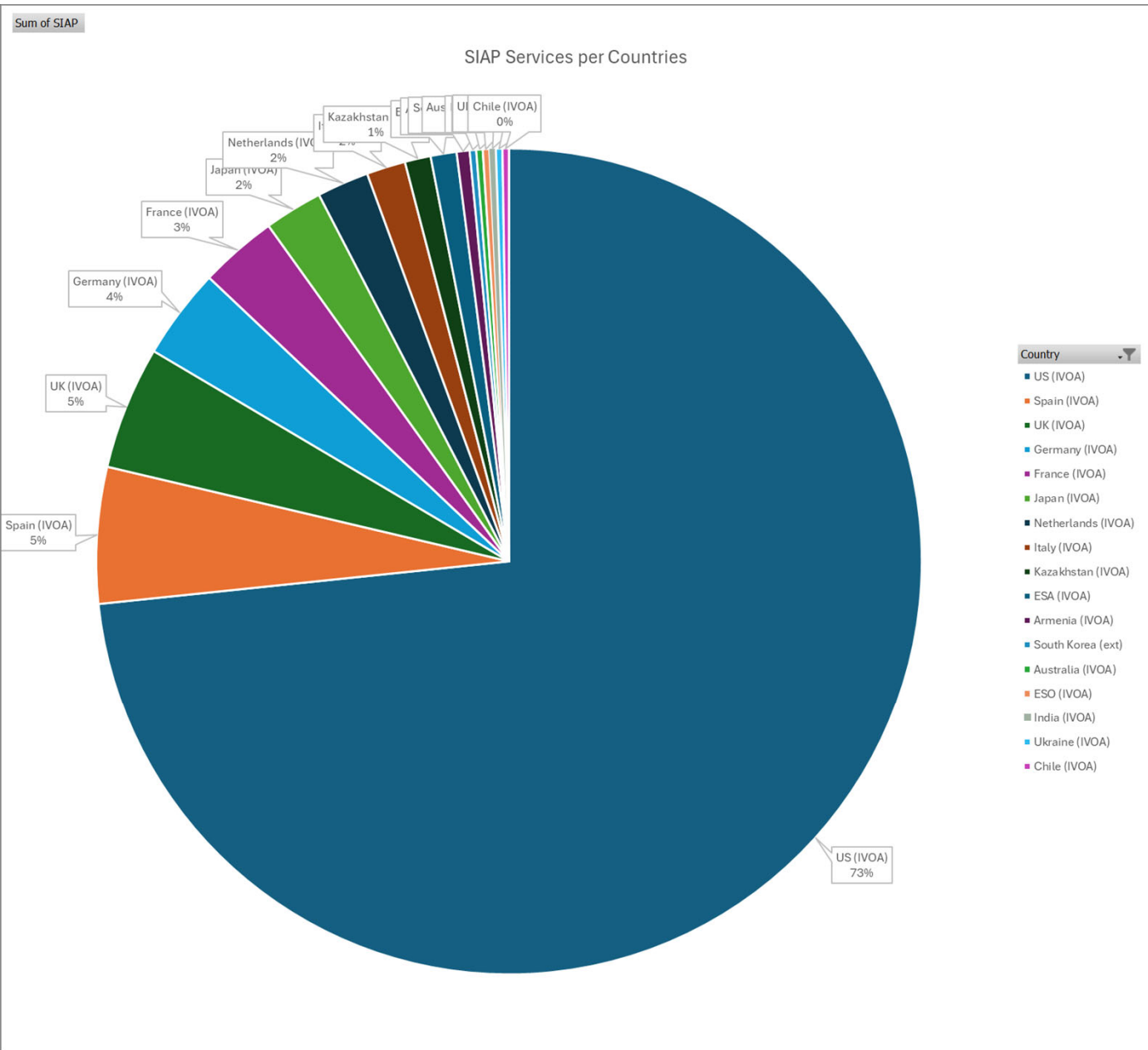
- US (IVOA)
- France (IVOA)
- Japan (IVOA)
- ESA (IVOA)
- Germany (IVOA)
- Spain (IVOA)
- UK (IVOA)
- Australia (IVOA)
- ESO (IVOA)
- Italy (IVOA)
- Poland (ext)
- Belgium (ext)
- Netherlands (IVOA)
- Russia (IVOA)
- Canada (IVOA)
- Austria (ext)
- Armenia (IVOA)
- Czechia (ext)
- Chile (IVOA)
- China (IVOA)
- Hungary (ext)
- Kazakhstan (IVOA)

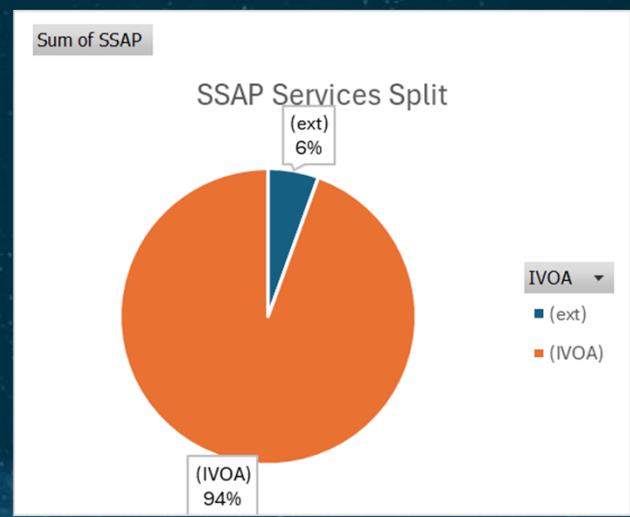
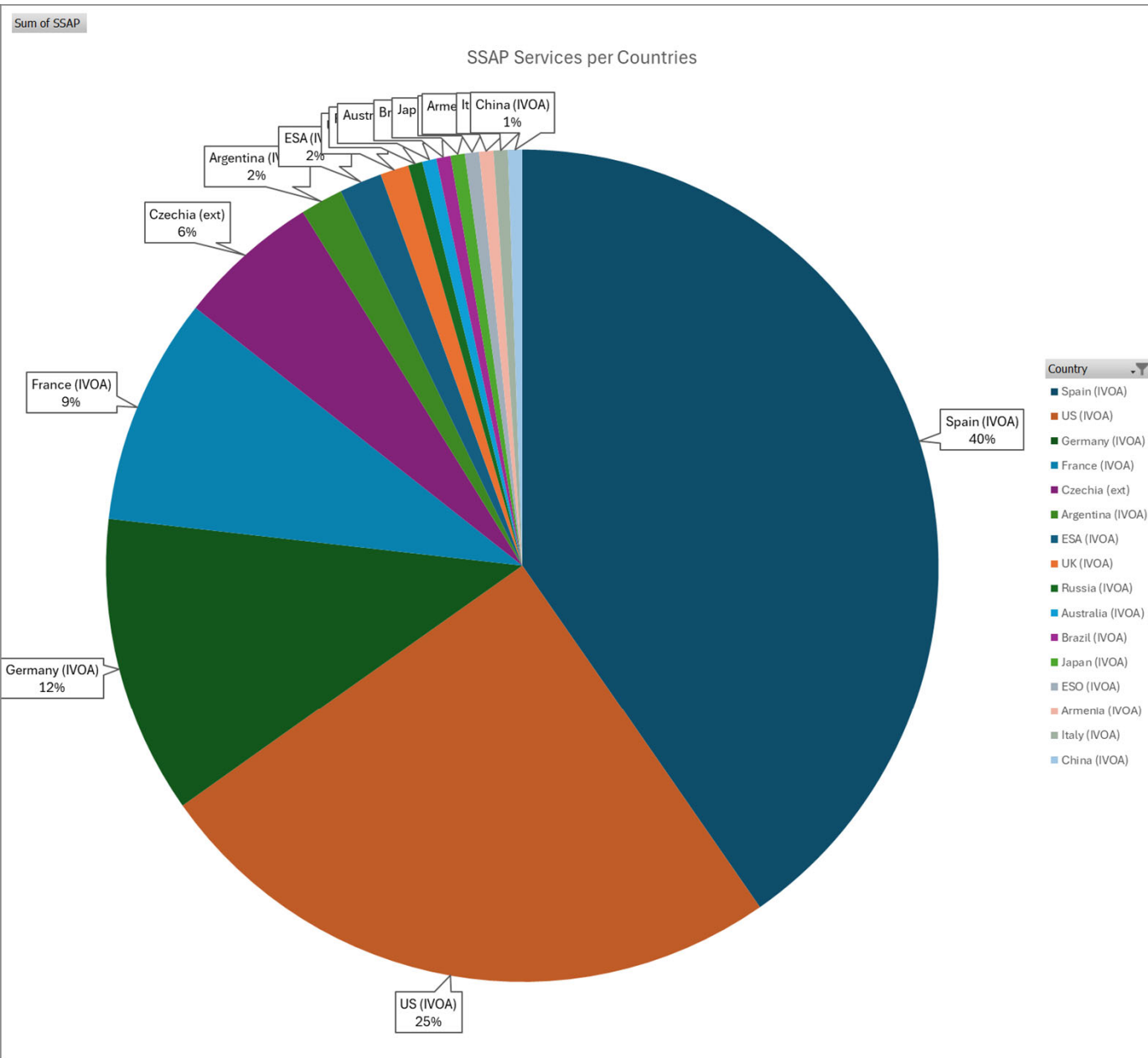


IVOA ▾

- (ext)
- (IVOA)

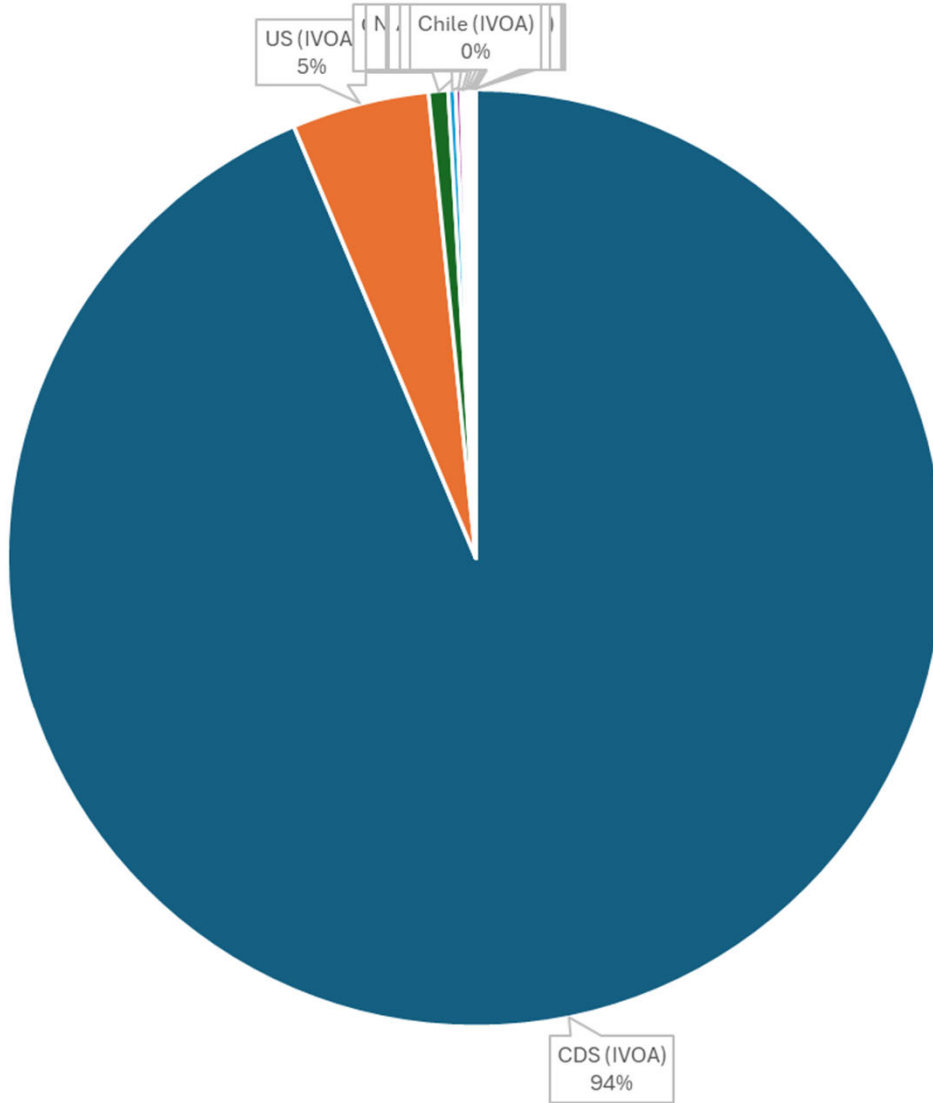






Sum of CS

ConeSearch per Countries

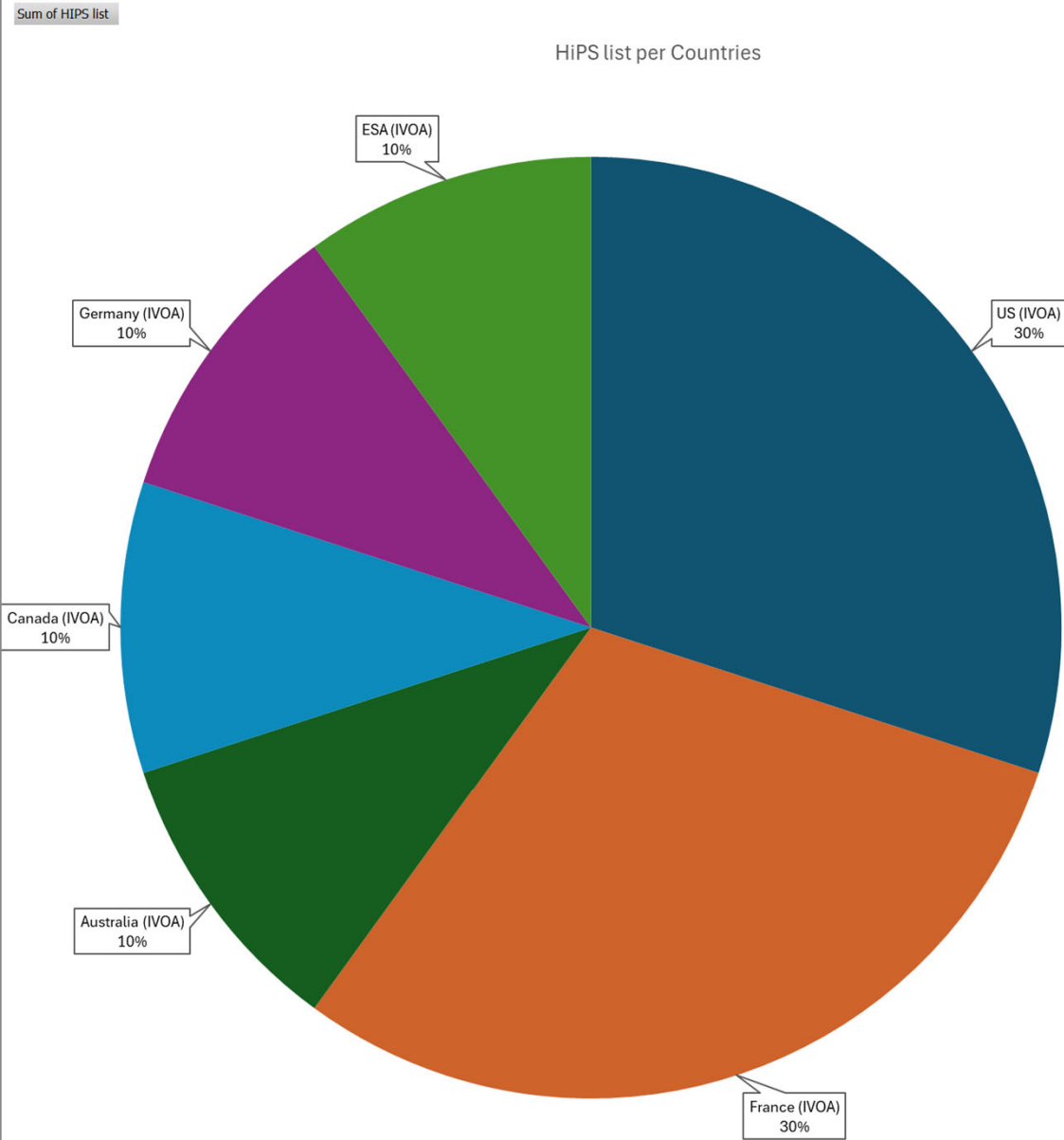


Country

- CDS (IWOA)
- US (IWOA)
- UK (IWOA)
- Germany (IWOA)
- Spain (IWOA)
- Russia (IWOA)
- Italy (IWOA)
- France (IWOA)
- Netherlands (IWOA)
- ESA (IWOA)
- China (IWOA)
- Australia (IWOA)
- Brazil (IWOA)
- Czechia (ext)
- Ukraine (IWOA)
- South Korea (ext)
- Argentina (IWOA)
- Europe (IWOA)
- Chile (IWOA)

Row Labels	Sum of CS
CDS (IWOA)	29195
US (IWOA)	1478
UK (IWOA)	209
Germany (IWOA)	79
Spain (IWOA)	58
Russia (IWOA)	34
Italy (IWOA)	26
France (IWOA)	25
Netherlands (IWOA)	18
ESA (IWOA)	15
China (IWOA)	11
Australia (IWOA)	10
Brazil (IWOA)	5
Czechia (ext)	4
Ukraine (IWOA)	3
South Korea (ext)	1
Argentina (IWOA)	1
Europe (IWOA)	1
Chile (IWOA)	1
Grand Total	31174

HiPS list per Countries



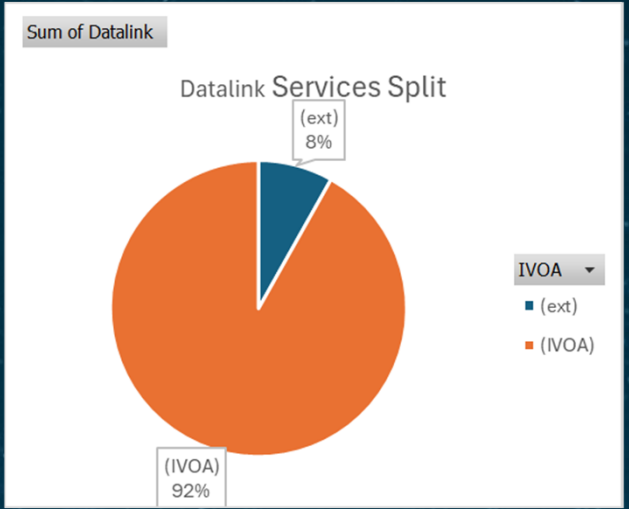
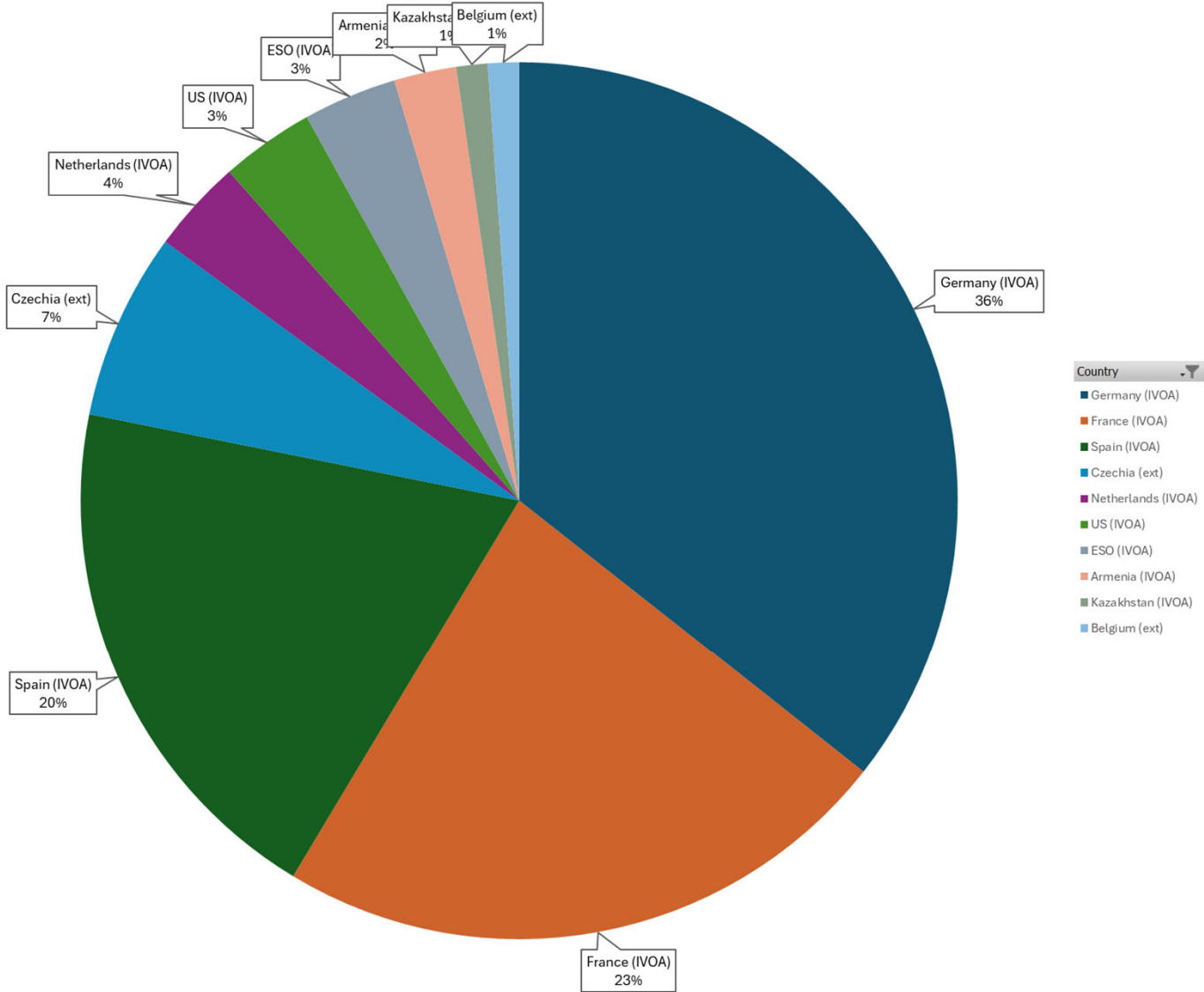
Row Labels	Sum of HiPS list
US (IVOA)	3
France (IVOA)	3
Australia (IVOA)	1
Canada (IVOA)	1
Germany (IVOA)	1
ESA (IVOA)	1
Grand Total	10

- Country
- US (IVOA)
 - France (IVOA)
 - Australia (IVOA)
 - Canada (IVOA)
 - Germany (IVOA)
 - ESA (IVOA)



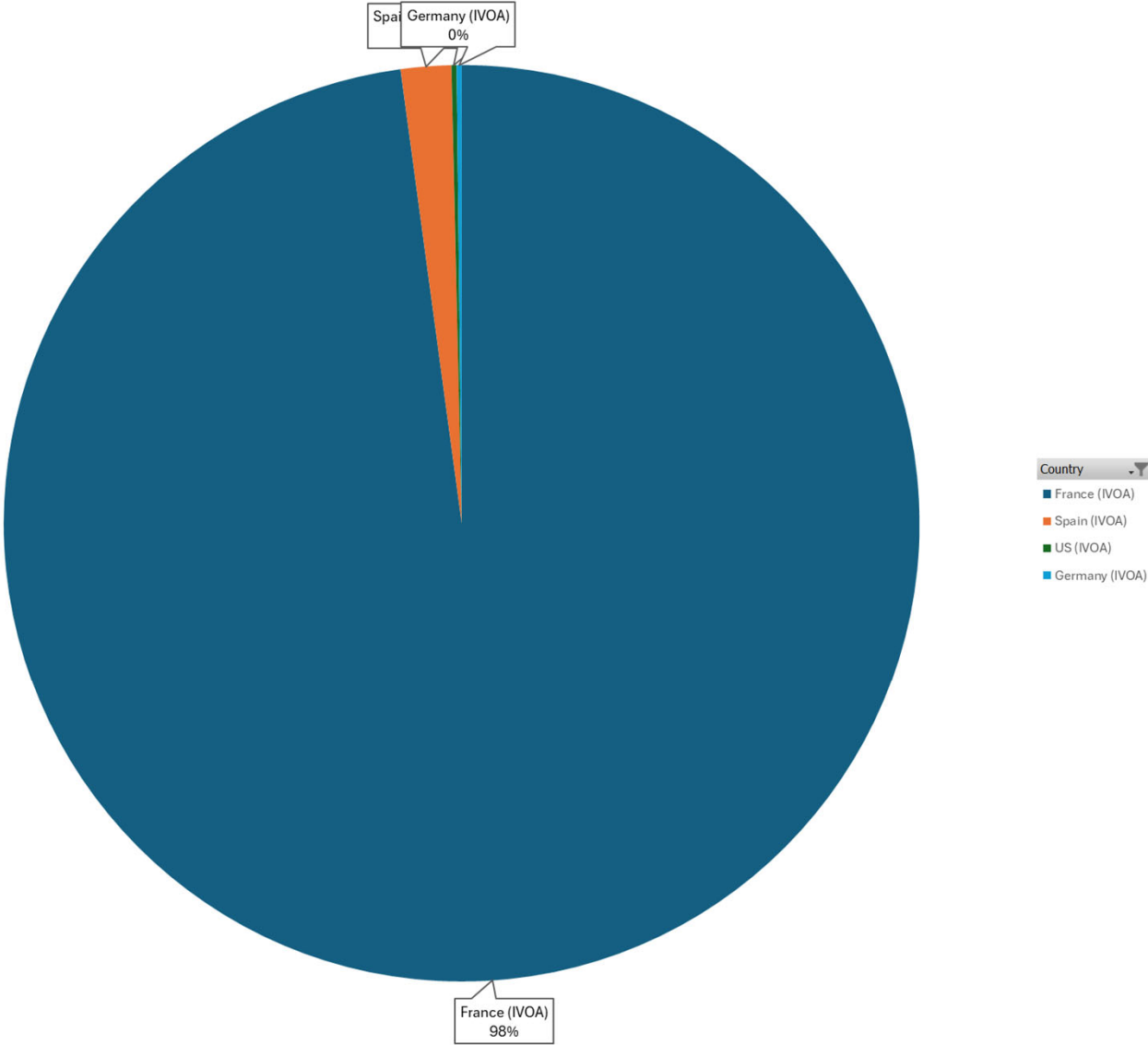
Datalink Services per Countries

Sum of Datalink



Sum of Individual HiPS

Individual HiPS per Countries



Row Labels	Sum of Individual HiPS
France (IWOA)	550
Spain (IWOA)	10
US (IWOA)	1
Germany (IWOA)	1
Grand Total	562

Some remarks

9 Managed Authorities from countries not in IVOA members, but very few Resources

Country Initial	IVOA	Country	Managed Authorities	SSAP	SIAP	TAP	Individual HIPS	HIPS list	Registry	Datalink	Total Service
Czechia	(ext)	Czechia (ext)	1	10	0	1	0	0	1	6	18
Belgium	(ext)	Belgium (ext)	2	0	0	2	0	0	2	1	5
Poland	(ext)	Poland (ext)	2	0	0	2	0	0	2	0	4
Austria	(ext)	Austria (ext)	1	0	0	1	0	0	1	0	2
Hungary	(ext)	Hungary (ext)	1	0	0	1	0	0	1	0	2
International	(ext)	International (ext)	1	0	0	0	0	0	1	0	1
South Korea	(ext)	South Korea (ext)	1	0	1	0	0	0	0	0	1
Sweden	(ext)	Sweden (ext)	1	0	0	0	0	0	0	0	0
Switzerland	(ext)	Switzerland (ext)	2	0	0	0	0	0	0	0	0

Some IVOA members with few VOResources, but might not be fully representative (i.e. CADC has lots of data collections all served through same DAL services)

Country Initial	IVOA	Country	Managed Authorities	SSAP	SIAP	TAP	Individual HIPS	HIPS list	Registry	Datalink	Total Service
Armenia	(IVOA)	Armenia (IVOA)	2	1	2	1	0	0	1	2	7
Kazakhstan	(IVOA)	Kazakhstan (IVOA)	1	0	4	1	0	0	1	1	7
Russia	(IVOA)	Russia (IVOA)	5	1	0	2	0	0	4	0	7
Canada	(IVOA)	Canada (IVOA)	2	0	0	2	0	1	1	0	4
China	(IVOA)	China (IVOA)	8	1	0	1	0	0	2	0	4
Argentina	(IVOA)	Argentina (IVOA)	1	3	0	0	0	0	0	0	3
Chile	(IVOA)	Chile (IVOA)	1	0	1	1	0	0	1	0	3
Brazil	(IVOA)	Brazil (IVOA)	1	1	0	0	0	0	1	0	2
Europe	(IVOA)	Europe (IVOA)	1	0	0	0	0	0	2	0	2
India	(IVOA)	India (IVOA)	1	0	1	0	0	0	0	0	1
Ukraine	(IVOA)	Ukraine (IVOA)	3	0	1	0	0	0	0	0	1



Potential questions and next steps

IVOA Exec Action to determine how the VO protocols and services are spread worldwide

- Within IVOA members countries and outside

Are the reported metrics relevant?

Are the reported metrics useful to follow the VO implementation across countries?

Would it make sense to monitor these metrics over time?

