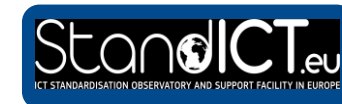




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Landscaping AI Standards



Lindsay Frost @NEC is

- **NEC Labs Europe GmbH**
Chief Standards Engineer
(Heidelberg, Germany)
- Member StandICT.eu 2023
Expert Advisory Group



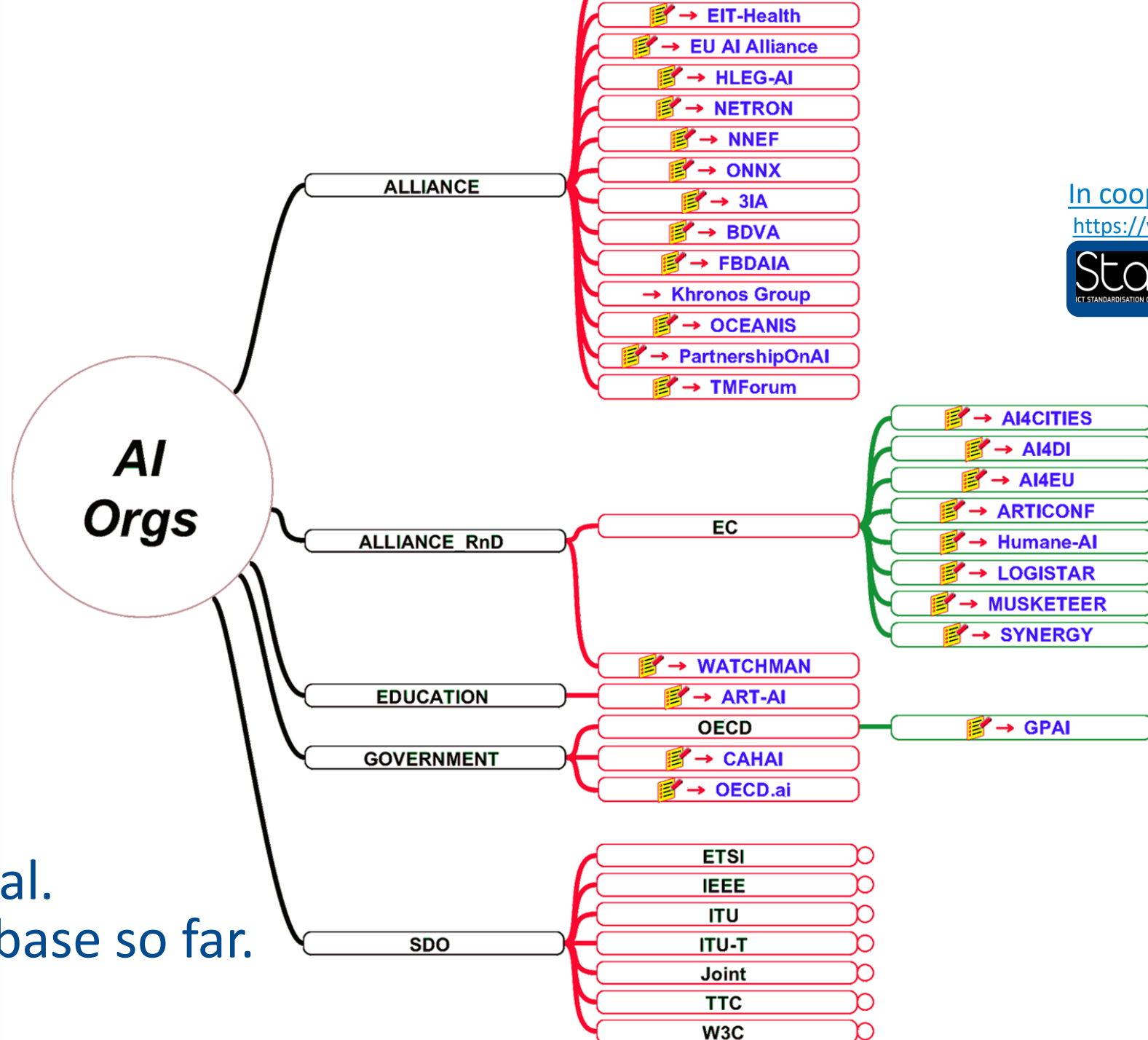
Lindsay Frost @ETSI is

- Board member of ETSI
- Chairman of ETSI ISG CIM
Context Info. Management
- ETSI OCG AI Chairman
- CEN/CLC/ETSI delegate to
CG SmartManufacturing

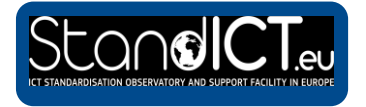
Previous roles included

- Board member of Home Gateway Initiative
- Co-chairman of HGI Smart Home group
- Chair of ETSI TISPAN WG5 Home Networks
- Chair WFA Mobile Convergence
- NLE R&D Mgr. in 3GPP, 802.11e
- Ph.D in experimental physics

AI activities are “



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This view is partial.
160 Orgs in database so far.

Landscaping AI Standards? What?? Why??

So much is already written; how to find “the good stuff” ?

Engineers and standards experts want to avoid double work

SMEs and enterprises need to find and compare solutions

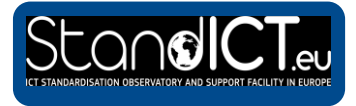
Governments need to find analyses, judge options, create balanced laws

SmartCities need to find “explainable AI” methods for expanding services

Citizens need to understand the options, choose what to accept

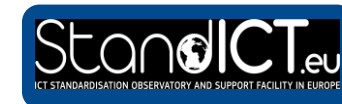
Security experts just want their essential guidelines followed, damn it!

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How to landscape the universe of Standardization?

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Hmmmm

Let me see, where are standards

ETSI has over 48k standards

IEC has another 100k or so

ITU ...

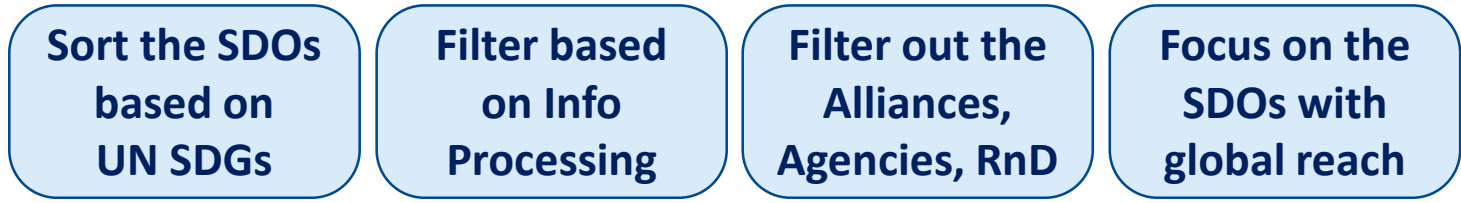
W3C

CEN & CENELEC

IEEE, IETF, 3GPP, oneM2m, etc !.....



How to landscape the universe of AI Standardization?

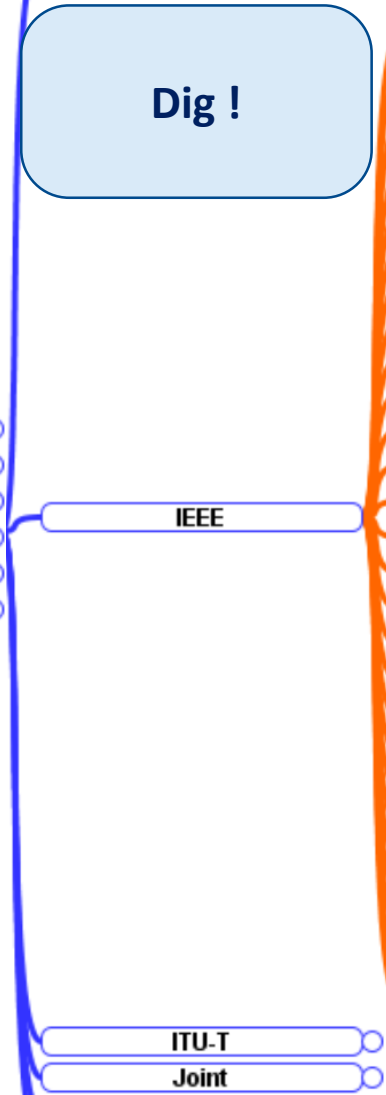


SDOs & Alliances

- BuiltEnvironment
- Connectivity
- Education
- Energy
- Food
- Health
- InformationProcessing
- Manufacturing
- Mobility
- Organization
- Safety
- SmartCity
- SocialCohesion
- Sustainability
- Water

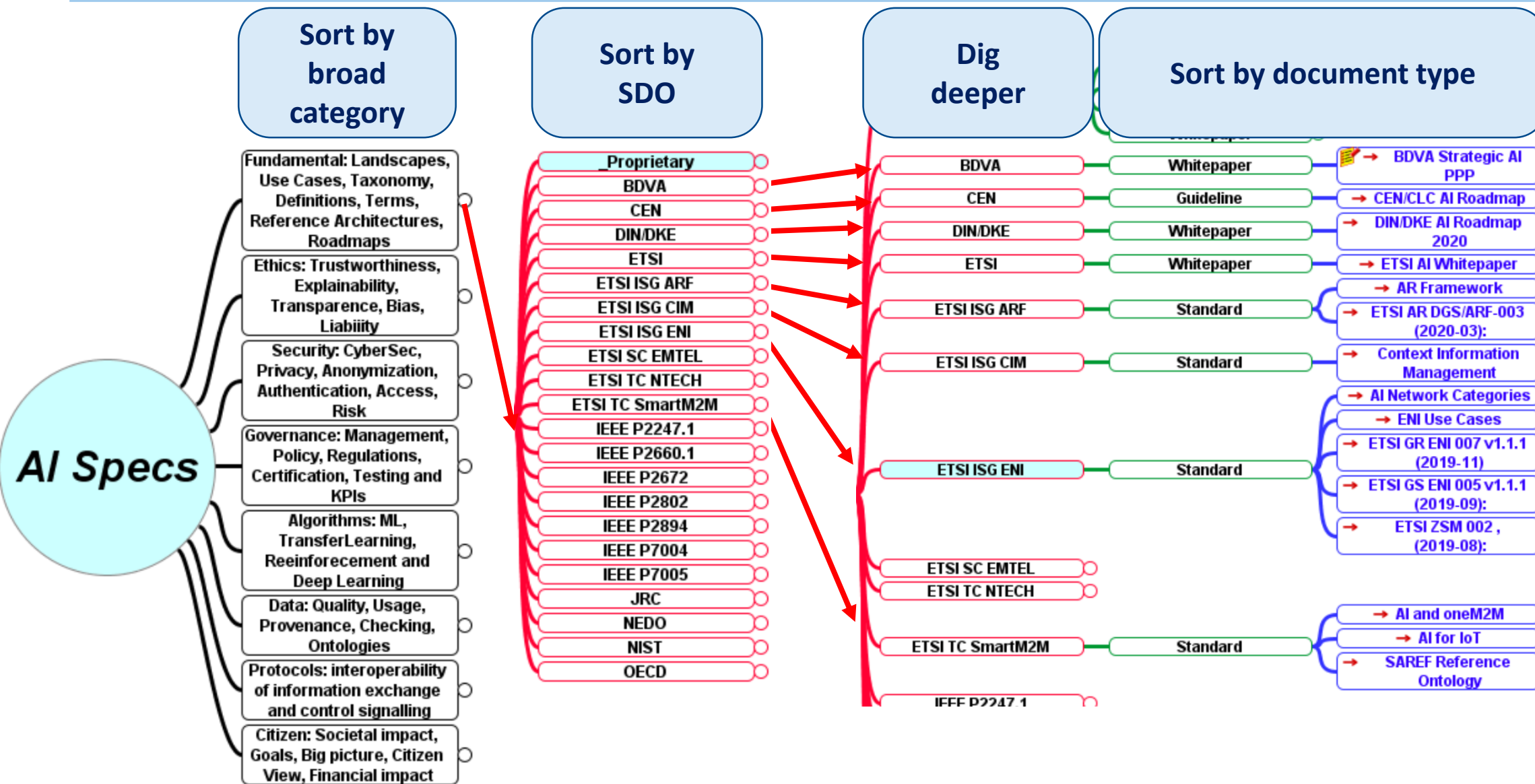


- ETSI
- IEEE
- ITU-T
- Joint
- TTC
- W3C



- ETSI ISG ARF
- ETSI ISG CIM
- ETSI ISG MEC
- IEEE A-IS
- IEEE ECPAIS
- IEEE P1589 AR Learning
- IEEE P1872.2
- IEEE P2089
- IEEE P2247.1
- IEEE P2247.2
- IEEE P2247.3
- IEEE P2660.1
- IEEE P2671
- IEEE P2672
- IEEE P2751
- IEEE P2755.2
- IEEE P2801
- IEEE P2802
- IEEE P2803
- IEEE P2805.3
- IEEE P2807
- IEEE P2841
- IEEE P3333.1.3
- IEEE P3652.1
- IEEE P7006
- IEEE P7007
- IEEE P7008
- IEEE P7009
- IEEE P7010
- IEEE P7012

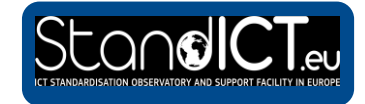
Dig ! Sort by broad category, then by SDO, then by type ...



Collaboration is the key!

Gradually acquire a list of organizations

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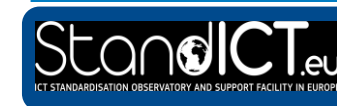


	A	B	C	E	F	G	H	I	N	O	P
1	Org_Short	W	Summary	Abstract	Comment	Type	Org_Level1	Region			
8	3IA	http	France establ	France established in April 201		ALLIANCE		EU			
25	AI Watch	http	AI watch is fu	AI watch is funded by the EC to		GOVERNMENT	EC	EU			
26	AI4CITIES	http	AI4Cities is a	AI4Cities is a three-year EU-fur		ALLIANCE_RnD	EC	EU			
27	AI4DI	http	The EU-funde	The EU-funded AI4DI project a		ALLIANCE_RnD	EC	EU			
28	AI4EU	http	AI4EU is the E	AI4EU is the European Union's		ALLIANCE_RnD	EC	EU			
34	ALOHA	http	The main goa	The main goal of ALOHA is to f		ALLIANCE	EC	EU			
43	ART-AI	http	ART-AI exists	ART-AI exists to educate interd		EDUCATION		UK			
44	ARTICONF	http	ARTICONF ad	ARTICONF addresses issues of		ALLIANCE_RnD	EC	EU			
60	BDVA	http	The mission c	The mission of the BDVA is to c		ALLIANCE		EU			
77	CAHAI	http	The Committe	The Committee will examine th		GOVERNMENT		EU			
130	CEN/CLC FG on AI	http	CEN-CENELEC	CEN-CENELEC Focus Group on		SDO	Joint	EU			
306	EIT-Health	http	EIT Health is	EIT Health is a Knowledge and		ALLIANCE	EC	EU			
338	ETSI ISG SAI	http	The Securing	The Securing Artificial Intellige		SDO	ETSI	EU			
395	EU AI Alliance	http	European AI	European AI Alliance is a forum		ALLIANCE	EC	EU			
414	FBDAIA	http	The Fraunhof	The Fraunhofer Big Data and A		ALLIANCE		DE			
438	GPAI	http	The founding	The founding members will sup		GOVERNMENT	OECD	Global			
450	HLEG-AI	http	The EC appoi	The EC appointed 52 experts ir		ALLIANCE	EC	EU			
453	Humane-AI	http	HUMAN-CEN	HUMAN-CENTERED ARTIFICIAL		ALLIANCE_RnD	EC	EU			
478	IEEE A-IS	http	The IEEE Glo	The IEEE Global Initiative's mis		SDO	IEEE	Global			
479	IFFF FCPAIS	http	The goal of TI	The goal of The Ethics Certifica		SDO	IFFF	Global			

Collaboration is the key!

Gradually acquire a list of “found” documents/specs

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1	A	B	C	D	E	F	G	H	I	J	K	L
REF_ID	Source	Title_Short	Title_Full	Webpa	Title_Full	Abstract/S	Comments/Outcor	DocType	Published	Planned/N	Category_EAG	
2	0001	HLEG	HLEG Guidelines for AI	"Ethics Guidelines for	https://ec.europa.eu/ai-ethics/	"Ethics Guidelines for			Guideline	08.04.2019		Ethics: Trustworthiness,
3	0002	DoD USA	AI Principles - USA	"AI Principles:	https://www.dod.mil/Portals/0/ai-principles/	"AI Principles:			Guideline	01.10.2019		Ethics: Trustworthiness,
4	0003	ETSI ISG ENI	ETSI GR ENI 007	Experiential Networked	https://www.etsi.org/standards-store	Experiential Networked			Standard			Fundamental: Landscapes, Use
5	0004	G20	G20 Digital Economy	"G20 Ministerial	https://www.g20.org/	"G20 Ministerial			Whitepaper	09.06.2019		Citizen: Societal impact, Goals,
6	0005	EC	EC Coordinated Plan	"Coordinated Plan on	https://ec.europa.eu/artificial-intelligence/	"Coordinated Plan on			Guideline	07.12.2018		Citizen: Societal impact, Goals,
7	0006	EC	EC plan Artificial	EC. "Artificial	https://ec.europa.eu/artificial-intelligence/	EC. "Artificial	Artificial		Guideline	25.04.2018		Citizen: Societal impact, Goals,
8	0007	IMI	IMI Data	Guides to improve data	https://imi.europa.eu/	Guides to improve data			Guideline	03.2020		Data: Quality, Usage,
9	0008	OECD	OECD Investments in	"OECD report on Private	http://www.oecd.org/	"OECD report on Private			Whitepaper	01.2019		Citizen: Societal impact, Goals,
10	0009	OECD	OECD Patents in AI	"OECD report on	https://repositorio.oecd.org/	"OECD report on			Whitepaper	11.2017		Citizen: Societal impact, Goals,
11	0010	EC Expert Group on liability	EU Liability in AI	"Liability for Artificial	https://ec.europa.eu/artificial-intelligence/	"Liability for Artificial			Guideline	18.11.2019		Ethics: Trustworthiness,
12	0011	EC	EC Rolling Plan	"EC Rolling Plan for ICT	https://ec.europa.eu/artificial-intelligence/	"EC Rolling Plan for ICT			Guideline	01.03.2019		Citizen: Societal impact, Goals,
13	0012	European Parliament	EU Regulation on Fair	"Regulation (EU)	https://eur-lex.europa.eu/	"Regulation (EU)			Guideline	20.06.2019		Governance: Management,
14	0013	European Parliament	EU Framework for	European Parliament. "A	https://www.europarl.europa.eu/	European Parliament. "A	Algorithmic		Guideline	04.04.2019		Governance: Management,
15	0014	EC	EC Whitepaper on AI	"WHITE PAPER On	https://ec.europa.eu/artificial-intelligence/	"WHITE PAPER On			Whitepaper	19.02.2020		Citizen: Societal impact, Goals,
16	0015	ETSI ISG NFV	ETSI DGR/NFV-IFA041	Network Functions	https://www.etsi.org/standards-store	Network Functions			Standard			Governance: Management,
17	0016	ETSI ISG ENI	ETSI ZSM 002 , (2019-	ETSI GS ZSM 002 , (2019-	https://www.etsi.org/standards-store	ETSI GS ZSM 002 , (2019-			Standard			Fundamental: Landscapes, Use
18	0017	ETSI ISG ENI	ETSI GS ENI 005	ETSI GS ENI 005 v1.1.1	https://www.etsi.org/standards-store	ETSI GS ENI 005 v1.1.1			Standard			Fundamental: Landscapes, Use
19	0018	ETSI TC NTECH	ETSI TS 103.195-2	ETSI TS 103.195-2 (2018-	https://www.etsi.org/standards-store	ETSI TS 103.195-2 (2018-			Standard			Fundamental: Landscapes, Use
20	0019	ETSI TC SmartM2M	ETSI TR 103 674	SmartM2M; Artificial	https://www.etsi.org/standards-store	SmartM2M; Artificial			Standard			Fundamental: Landscapes, Use
21	0020	ETSI TC SmartM2M	ETSI TR 103 675	SmartM2M AI for IoT: A	https://www.etsi.org/standards-store	SmartM2M AI for IoT: A			Standard			Protocols: interoperability of
22	0021	ETSI TC SmartM2M	SAREF Reference	SAREF Smart	https://www.etsi.org/standards-store	SAREF Smart			Standard			Fundamental: Landscapes, Use
23	0022	ETSI ISG ARF	ETSI AR DGS/ARF-003	Augmented Reality	https://www.etsi.org/standards-store	Augmented Reality			Standard			Fundamental: Landscapes, Use
24	0023	ETSI ISG ARF	ETSI GR ARF 001	ETSI GR ARF 001 V1.1.1	https://www.etsi.org/standards-store	ETSI GR ARF 001 V1.1.1			Landscape			Fundamental: Landscapes, Use
25	0024	ETSI ISG SAI	ETSI ISG SAI	"ETSI ISG Securing	https://www.etsi.org/standards-store	"ETSI ISG Securing			Standard	04.03.2020		Security: CyberSec, Privacy,
26	0025	ETSI ISG SAI	ETSI DGR/SAI-004	Securing Artificial	https://www.etsi.org/standards-store	Securing Artificial			Standard			Security: CyberSec, Privacy,

Make it useful ... for you, the users

Provide structured “categories” to help find materials
(basic work of a good library)

Allow organisations and users to annotate a copy of the database
Put in own comments, own prioritization

Allow organizations and users to “publish” their annotations, to benefit of all

Identify gaps in the materials, allow experts to compare and find best solutions

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