

ERM Validator

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ERM Validator 2021.2

On BKG-ftp server – since 24 July 2020

Bestandsnaam						
	Bestandsnaam	Bestandsgrootte	Bestandstype	Laatst gewijzigd	Rechten	Eigenaar/group
..						
Feedback				Bestandsmap	drwxr-xr-x	ftp ftp
Old_				Bestandsmap	drwxr-xr-x	ftp ftp
ERM_Validator_2021.2.zip	2.683.921	WinZip-be...		24-7-2020	-rw-r--r--	ftp ftp

Zip-file -> docs



- ERM_Validator_Checks_2021.0.xls
- ERM_Validator_QuickGuide_2021.0.docx
- ERM_Validator_WhatsNew_2021.0.docx
- ERM-Validator_2021_Checks_POP.docx
- ERM-Validator_2021_Checks_TRANS.docx



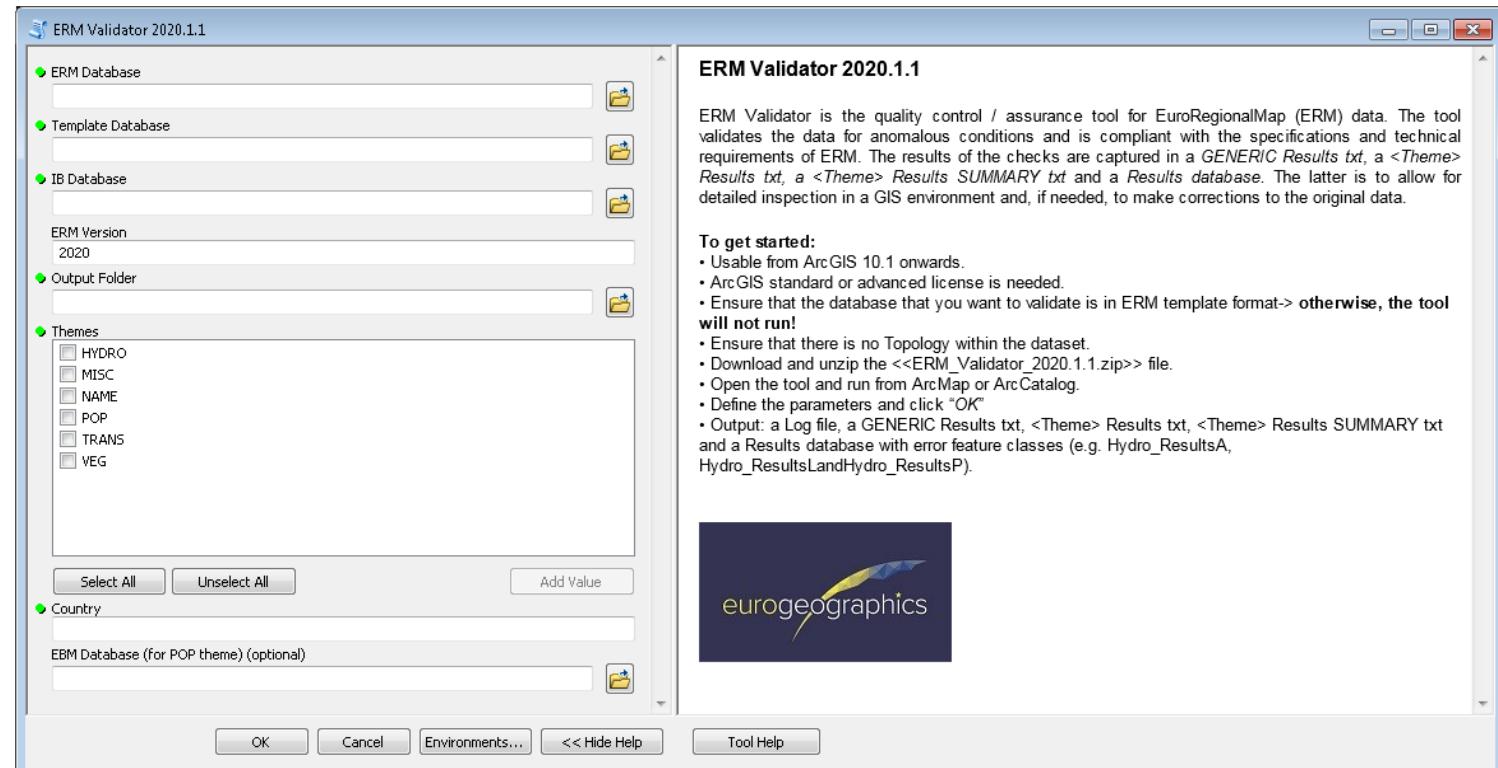
	Validation code	Check	Implemented in ERM Validator 2020 tool?
General Data Delivery	H001	feature classes AQUEDCTL, COASTA, COASTL, DAML, DAMC, LAKERESA, LANDICEA, ISLANDA, SEAA, SEASTRTL, SPRING, SWAMPA, RAPIDSL, RAPIDSC, WATRCRSA, WATRCRSL, WELLP	<input checked="" type="checkbox"/>
	H002	coordinate system (GEOGRAPHIC, decimal degrees)	<input checked="" type="checkbox"/>
	H003	map extent (-25° < Lambda < 40° and 30° < Phi < 80°)	<input checked="" type="checkbox"/>
	H004	mandatory feature classes COASTA, COASTL, DAML, DAMC, LAKERESA, LANDICEA(BJ030), ISLANDA, SEAA, SWAMPA, WATRCRSA, WATRCRSL must have features	<input checked="" type="checkbox"/>
	H005	Empty or missing tables	<input checked="" type="checkbox"/>
Geometric resolution (Tested in projection ETRS89 LAEA)	H006	Valid Geometry	<input checked="" type="checkbox"/>
	H007	minimum allowed area size: 60 000m ²	<input checked="" type="checkbox"/>
	H008	minimum allowed distance between vertices of line and area features: 5m	<input checked="" type="checkbox"/>
	H009	minimum allowed length of a line segment: 50m	<input checked="" type="checkbox"/>
Selection criteria (Tested in projection ETRS89 LAEA)	H010	statistics of average distance between vertices	<input type="checkbox"/>
	H011	The number of LAKERESA less than 400 000m ²	<input checked="" type="checkbox"/>
	H012	The number of WATRCRSA less than 200 000m ²	<input checked="" type="checkbox"/>
	H013	The number of SWAMPA, LANDICEA less than 400 000m ²	<input checked="" type="checkbox"/>
	H014	The number of ISLANDA less than 400 000m ²	<input checked="" type="checkbox"/>
	H015	The number of dams and locks less than 125m	<input checked="" type="checkbox"/>
	H016	The number of dangling AQUEDCTL, WATRCRSL shorter than 1600m	<input checked="" type="checkbox"/>
	H017	The number of shoreline construction (SEASTRTL) shorter than 125m	<input checked="" type="checkbox"/>
Data Model and attributes structure	H018	geometrical definitions (polygon, polyline, point)	<input checked="" type="checkbox"/>
	H019	attributes: complete list, ordering, definition	<input checked="" type="checkbox"/>
	H020	attributes: has core attributes (FCSubtype, inspireId, beginLifeSpanVersion, F_CODE, ICC, SI)	<input checked="" type="checkbox"/>
	H021	correct value of ICC (all FCS)	<input checked="" type="checkbox"/>
	H022	Name attribute: no special character in NAMA1 or NAMA2	<input checked="" type="checkbox"/>
	H023	allowed attribute values for COASTA (MCC, NAMxx)	<input checked="" type="checkbox"/>
	H024	allowed attribute values for ISLANDA (HAMxx)	<input checked="" type="checkbox"/>
	H025	allowed attribute values for LAKERESA (HYP, HydroID, TID, ZV2, NHI, NAMxx)	<input checked="" type="checkbox"/>

What's new

- Documentation (Quick Guide / What's New)
- Fixes (e.g.)
 - Adding of TRANS and POP checks that where not implemented in version 2020.0 and 2020.1.
 - Checks according the change of FerryL are updated. (Modelling of ferries)
 - Fixed usage of IntercC and LevelC
 - Handling of missing attributes (<Null>) for POP and TRANS themes
 - Fixed problems with T041 AIRFLDA, HARBORA: No adjacent faces with same attributes
 - The “Frequency tool” (advanced license needed) is fixed, now available for standard licence.
 - P010, P017, T061, T062, T065, T066: Fixed incorrect values relating to UNK
- Improvements (e.g.)
 - Added T095 FERRYL: Must be connected to either FERRYC or Connecting Feature Point (CFP) with featureType = FerryL
- Other changes
 - Reducing the number of false positives for the pseudonodes checks.

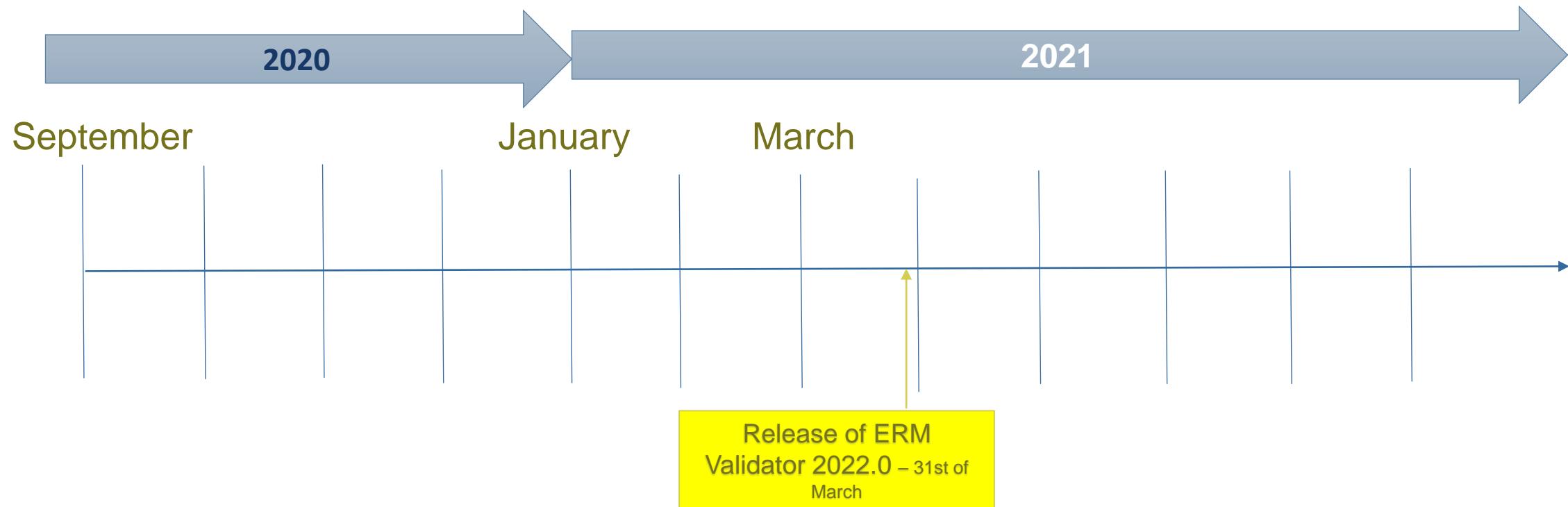
Running the tool

- Define the parameters
 - ERM Database
 - Template Database
 - ELF Database
 - ERM Version
 - Themes
 - Country
 - EBM Database
(for POP theme) (optional)
- Click “OK”



Release of ERM Validator 2022.0

On BKG-ftp server – 31st of March 2021



Next steps ([ERM_Validator_List_of_known_issues_20200901](#))

Known errors/issues to be solved in upcoming version:

- Provide a more explicit warning when validated dataset is not in correct template
- Adjust handling of missing attributes (<*Null*>) for HYDRO, MISC and VEG themes
- Update *ICC Countrycodes* list
- Investigate and fix possible issues with checks H080 and T082
- Further reduce the number of false positives for pseudonodes checks
- Add generic check for total number of features
- Add uniqueness check for PopulatedPlaceID
- Add statistics section
- Add additional tool documentation
- Add checks that are not yet implemented (*ERM_Validator_Checks.xls*)

Next steps

Validation code	Check	Implemented in ERM Validator
General Data Delivery		
M001	feature classes BUILDP, CTOWERP, EXTRACTP, IMDPROD, IMDPRODP	☒
M002	coordinate system (GEOGRAPHIC, decimal degrees)	☒
M003	map extent (-25° < Lambda < 40° and 30° < Phi < 80°)	☒
M004	mandatory feature classes BUILDP, PARKA, road, line feature	☒
M005	Valid Geometry	☒
M006	minimum allowed area size: 60 000m ²	☒
M007	minimum allowed distance between vertices of line and area features: 5m	☒
M008	minimum allowed length of a line feature: 5m	☒
M009	statistics of average distance between vertices of areas: 5m	☒
M010	The number of PARKA less than 400 000m ²	☒
M011	The number of (IMDPROD, POWERL) less than 160m (doubling, stand-alone)	☒
M012	The minimum allowed length of PHTSL is 160m (doubling, stand-alone)	☒
Geometric resolution (Tested in projection ETRS89 LAEA)		
M013	geometrical definitions (polygon, polyline, attribute: complete list, ordering, definition)	☒
M014	attribute: line, area attributes (FCSattribute, inspired)	☒
M015	correct value of FIC (all FICs)	☒
M017	Name attribute: no special character in NAME1 or NAME2	☒
M018	name attribute for BUILDP (ITG, ERS, MIN, PRO, NAMExx)	☒
M019	allowed attribute values for CTOWERP	☒
M020	allowed attribute values for EXTRACTP (ITG, ERS, MIN, PRO, NAMExx)	☒
M021	allowed attribute values for IMDPROD	☒
M022	allowed attribute values for LANDMRKP	☒
M023	allowed attribute values for PHTSP	☒
M024	allowed attribute values for POWERP (PPC, NAMExx)	☒
M025	allowed attribute values for TOWERP (ITG)	☒
M026	allowed attribute values for IMDPRODP	☒
M027	allowed attribute values for PHTSL (PHT, USE, VRR)	☒
M028	allowed attribute values for POWERL (FOO)	☒
M029	allowed attribute values for PARKA (NAME, NAMExx)	☒
M030	PARKA: Must not overlap	☒
M031	PARKA: Must be single part	☒
M032	PARKA: No adjacent faces with same intersect or touch interior	☒
M033	IMDPROD, PHTSL, POWERL: Must not overlap	☒
M034	IMDPROD, PHTSL, POWERL: Must not self-intersect	☒
M035	IMDPROD, PHTSL, POWERL: Must be single part	☒
M036	IMDPROD, PHTSL, POWERL: Must be single	☒
M037	IMDPROD, PHTSL, POWERL: No pseudo	☒
M038	BUILDP, CTOWERP, EXTRACTP, IMDPROD, LANDMRKP, PHTSL, POWERP, TOWERP: Must not overlap, not touch each other	☒
Attributes cross-examination		
M040	Conditions for BUILDP, EXTRACTP, LANDMRKP, PARKA, PHTSP, POWERP:	☒
Attributes completion rate		
M041	Give information on the % of unknown or not populated values for an attribute.	☒
M042	For BUILDP with BFC, POWERP with PPC, PHTSP with PHTSL, if attribute is populated, they should have a known value for the attribute giving their type	☒
Consistency with other layers		
M043	PHSP, PHTSL features are well on land	☒
M044	Feature except BUILDP (Lightkraus), POWERP (Wind Power Station), IMDPROD (Pumping Station), POWERL, IMDPRODL (Pipeline), PARKA will inside the country (by RC)	☒
Specific Checks		
M045	PowerL connectivity	☒
M046	Indirect connectivity	☒
M047	PowerL, dyply, number of features not connected to a feature in neighbouring country (by RC)	☒
M048	Name attribute: quad consistency and correct spelling	☒

Validation code	Check	Implemented in ERM Validator 2021 tool
General Data Delivery		
P001	feature classes BUILDPA, BUILTPA, URBANP	☒
P002	coordinate system (GEOGRAPHIC, decimal degrees)	☒
P003	map extent (-25° < Lambda < 40° and 30° < Phi < 80°)	☒
P004	mandatory feature classes BUILTPA, BUILTPUP must have features	☒
P005	Valid Geometry	☒
P006	minimum allowed area size: 60 000m ²	☒
P007	The number of BUILTPA less than 400 000?	☒
P008	statistics of average distance between vertices of line and area features: 5m	☒
P009	The number of BUILTPUP less than 400 000?	☒
P010	The number of BUILTPUP(0,022) with FPL < 5000	☒
Geometric resolution (Tested in projection ETRS89 LAEA)		
P011	geometrical definitions (polygon, polyline, point)	☒
P012	attribute: complete list, ordering, definition	☒
P013	attribute: have valid values (FCSattribute, F_CODE). No null values.	☒
P014	correct value of ICC (all FICs)	☒
P015	Name attribute: no special character in NAME1 or NAME2 (only ASCII)	☒
P016	allowable attribute values for BUILTPA (RegulatedLocality)	☒
P017	allowable attribute values for BUILTPUP (RegulatedLocality)	☒
P018	allowable attribute values for URBANP (NAME1, NAME1, NAME1)	☒
Topology		
P019	BUILTPA: Must not overlap with features from the same feature class	☒
P020	BUILTPA: Must not self-overlap	☒
P021	BUILTPA: Must be single part	☒
P022	BUILTPA: Must not intersect with features from other feature class	☒
P023	BUILTPUP: URBANP: Must not intersect with features from the same feature class	☒
P024	BUILTPUP (AL020) must be outside BUILTPA	☒
P025	BUILTPUP (AL022) must be inside BUILTPA	☒
P026	Conditions for BUILTPUP	☒
P027	Conditions for BUILTPUP, URBANP: NAME-NI-Nr	☒
P028	Give information on the % of unknown, unpopulated, not applicable values for an attribute	☒
Attributes cross-examination		
P029	DEPRECATED	☒
P030	BUILTPA, BUILTPUP, URBANP features are well inside administrative boundaries	☒
P031	BUILTPA, BUILTPUP, URBANP do not overlap AIRFLDA, HARBORA	☒
P032	BUILTPA, URBANP do not overlap SOILA, VEGA	☒
P033	Connectivity of BUILTPUP with road network	☒
P034	PowerL, BUILTPA, BUILTPUP, URBANP: Must be connected to a feature (ITM) should be consistent	☒
P035	BUILTPUP (AL022) should have the same PowerL/PowerP attribute value as BUILTPA it is inside	☒
Specific Checks		
P036	Name attribute: good consistency and correct spelling	☒
Consistency with other layers		
P037	DEPRECATED	☒
P038	Attributes completion rate	☒
P039	Consistency with other layers	☒
P040	Specific Checks	☒
Topology		
P041	COASTA, ISLANDA, LARVICEA, SOILA, SWAMP, WATERCSA: Must be single part	☒
P042	COASTA, ISLANDA, LARVICEA, SOILA, SWAMP, WATERCSA: Must not overlap	☒
P043	COASTA, COASTL, BATH, RAPIDL, SEASTRTL, WATERCSA: Must not overlap	☒
P044	COASTL, COASTL, BATH, RAPIDL, SEASTRTL, WATERCSA: Must not intersect or touch interior	☒
P045	COASTL, COASTL, BATH, RAPIDL, SEASTRTL, WATERCSA: Must not self-intersect	☒
P046	COASTL, COASTL, BATH, RAPIDL, SEASTRTL, WATERCSA: Must not overlap	☒
P047	COASTL, COASTL, BATH, RAPIDL, SEASTRTL, WATERCSA: Must not intersect or touch interior	☒
P048	COASTL, COASTL, BATH, RAPIDL, SEASTRTL, WATERCSA: Must not self-intersect	☒
P049	COASTL, COASTL, BATH, RAPIDL, SEASTRTL, WATERCSA: Must not overlap	☒
P050	COASTL, COASTL, BATH, RAPIDL, SEASTRTL, WATERCSA: Must not intersect or touch interior	☒
P051	COASTL, COASTL, BATH, RAPIDL, SEASTRTL, WATERCSA: Must not self-intersect	☒
P052	COASTL, COASTL, BATH, RAPIDL, SEASTRTL, WATERCSA: Must not overlap	☒
P053	COASTL, COASTL, BATH, RAPIDL, SEASTRTL, WATERCSA: Must not intersect or touch interior	☒
P054	COASTL, COASTL, BATH, RAPIDL, SEASTRTL, WATERCSA: Must not self-intersect	☒
P055	COASTL, COASTL, BATH, RAPIDL, SEASTRTL, WATERCSA: Must not overlap	☒
P056	COASTL, COASTL, BATH, RAPIDL, SEASTRTL, WATERCSA: Must not intersect or touch interior	☒
P057	COASTL, COASTL, BATH, RAPIDL, SEASTRTL, WATERCSA: Must not self-intersect	☒
P058	COASTL, COASTL, BATH, RAPIDL, SEASTRTL, WATERCSA: Must not overlap	☒
P059	COASTL, COASTL, BATH, RAPIDL, SEASTRTL, WATERCSA: Must not intersect or touch interior	☒
P060	COASTL, COASTL, BATH, RAPIDL, SEASTRTL, WATERCSA: Must not self-intersect	☒
P061	COASTL, COASTL, BATH, RAPIDL, SEASTRTL, WATERCSA: Must not overlap	☒
P062	COASTL, COASTL, BATH, RAPIDL, SEASTRTL, WATERCSA: Must not intersect or touch interior	☒
P063	COASTL, COASTL, BATH, RAPIDL, SEASTRTL, WATERCSA: Must not self-intersect	☒
P064	COASTL, COASTL, BATH, RAPIDL, SEASTRTL, WATERCSA: Must not overlap	☒
P065	COASTL, COASTL, BATH, RAPIDL, SEASTRTL, WATERCSA: Must not intersect or touch interior	☒
P066	COASTL, COASTL, BATH, RAPIDL, SEASTRTL, WATERCSA: Must not self-intersect	☒
P067	COASTL, COASTL, BATH, RAPIDL, SEASTRTL, WATERCSA: Must not overlap	☒
P068	COASTL, COASTL, BATH, RAPIDL, SEASTRTL, WATERCSA: Must not intersect or touch interior	☒
P069	COASTL, COASTL, BATH, RAPIDL, SEASTRTL, WATERCSA: Must not self-intersect	☒
P070	COASTL, COASTL, BATH, RAPIDL, SEASTRTL, WATERCSA: Must not overlap	☒
P071	COASTL, COASTL, BATH, RAPIDL, SEASTRTL, WATERCSA: Must not intersect or touch interior	☒
P072	COASTL, COASTL, BATH, RAPIDL, SEASTRTL, WATERCSA: Must not self-intersect	☒
P073	COASTL, COASTL, BATH, RAPIDL, SEASTRTL, WATERCSA: Must not overlap	☒
P074	COASTL, COASTL, BATH, RAPIDL, SEASTRTL, WATERCSA: Must not intersect or touch interior	☒
P075	COASTL, COASTL, BATH, RAPIDL, SEASTRTL, WATERCSA: Must not self-intersect	☒
P076	COASTL, COASTL, BATH, RAPIDL, SEASTRTL, WATERCSA: Must not overlap	☒
P077	COASTL, COASTL, BATH, RAPIDL, SEASTRTL, WATERCSA: Must not intersect or touch interior	☒
P078	COASTL, COASTL, BATH, RAPIDL, SEASTRTL, WATERCSA: Must not self-intersect	☒
P079	COASTL, COASTL, BATH, RAPIDL, SEASTRTL, WATERCSA: Must not overlap	☒
P080	COASTL, COASTL, BATH, RAPIDL, SEASTRTL, WATERCSA: Must not intersect or touch interior	☒
P081	COASTL, COASTL, BATH, RAPIDL, SEASTRTL, WATERCSA: Must not self-intersect	☒
P082	COASTL, COASTL, BATH, RAPIDL, SEASTRTL, WATERCSA: Must not overlap	☒
P083	COASTL, COASTL, BATH, RAPIDL, SEASTRTL, WATERCSA: Must not intersect or touch interior	☒
P084	COASTL, COASTL, BATH, RAPIDL, SEASTRTL, WATERCSA: Must not self-intersect	☒
P085	COASTL, COASTL, BATH, RAPIDL, SEASTRTL, WATERCSA: Must not overlap	☒
P086	COASTL, COASTL, BATH, RAPIDL, SEASTRTL, WATERCSA: Must not intersect or touch interior	☒
P087	COASTL, COASTL, BATH, RAPIDL, SEASTRTL, WATERCSA: Must not self-intersect	☒
P088	COASTL, COASTL, BATH, RAPIDL, SEASTRTL, WATERCSA: Must not overlap	☒
P089	COASTL, COASTL, BATH, RAPIDL, SEASTRTL, WATERCSA: Must not intersect or touch interior	☒
P090	COASTL, COASTL, BATH, RAPIDL, SEASTRTL, WATERCSA: Must not self-intersect	☒
P091	COASTL, COASTL, BATH, RAPIDL, SEASTRTL, WATERCSA: Must not overlap	☒
P092	COASTL, COASTL, BATH, RAPIDL, SEASTRTL, WATERCSA: Must not intersect or touch interior	☒
P093	COASTL, COASTL, BATH, RAPIDL, SEASTRTL, WATERCSA: Must not self-intersect	☒
Attributes cross-examination		
P094	DEPRECATED	☒
P095	DEPRECATED	☒
P096	DEPRECATED	☒
P097	DEPRECATED	☒
P098	DEPRECATED	☒
P099	DEPRECATED	☒
P100	DEPRECATED	☒
P101	DEPRECATED	☒
P102	DEPRECATED	☒
P103	DEPRECATED	☒
P104	DEPRECATED	☒
P105	DEPRECATED	☒
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P107	DEPRECATED	☒
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P122	DEPRECATED	☒
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P154	DEPRECATED	☒
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P173	DEPRECATED	☒
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P175	DEPRECATED	☒
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P184	DEPRECATED	☒
P185	DEPRECATED	☒
P186	DEPRECATED	☒
P187	DEPRECATED	☒
P188	DEPRECATED	☒
P189	DEPRECATED	☒
P190	DEPRECATED	☒
P191	DEPRECATED	☒
P192	DEPRECATED	☒
P193	DEPRECATED	☒
Attributes completion rate		
P194	DEPRECATED	☒
P195	DEPRECATED	☒
P196	DEPRECATED	☒
P197	DEPRECATED	☒
P198	DEPRECATED	☒
P199	DEPRECATED	☒
P200	DEPRECATED	☒
P201	DEPRECATED	☒
P202	DEPRECATED	☒
P203	DEPRECATED	☒
P204	DEPRECATED	☒
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P225	DEPRECATED	☒
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P228	DEPRECATED	☒
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P238	DEPRECATED	☒
P239	DEPRECATED	☒
P240	DEPRECATED	☒
P241	DEPRECATED	☒
P242	DEPRECATED	☒
P243	DEPRECATED</	

FAQ

ERM Validator tool immediately returns an error, what can be the problem?

1. Database is not in the correct ERM template format
2. There is a Topology within the dataset
3. Folder structure has **.gdb** in the name



```
20200909-10:27:04 MainProcess MainThread INFO Logging Created, logfile: L:\ERM_2020\NL\Validation_results\ERMValidator_20200909-102704.log
20200909-10:27:04 MainProcess MainThread INFO Start ERM Validator version: ERM Validator 2021.2 - 20200615
20200909-10:27:04 MainProcess MainThread INFO Start with parameters:
20200909-10:27:04 MainProcess MainThread INFO Input database   : L:\ERM_2020\ERM_2021_NL_POP-TRANS_2021.gdb\ERM_2021_NL_POP-TRANS_2021_20200909.gdb
20200909-10:27:04 MainProcess MainThread INFO Template database: L:\ERM_2020\ERM_2021_template.gdb
20200909-10:27:04 MainProcess MainThread INFO ELF database    : L:\ERM_2020\IB_Regional_2021.gdb
20200909-10:27:04 MainProcess MainThread INFO ERM Version     : 2021
20200909-10:27:04 MainProcess MainThread INFO Result folder  : L:\ERM_2020\NL\Validation_results
20200909-10:27:04 MainProcess MainThread INFO Themes        : POP;TRANS
20200909-10:27:04 MainProcess MainThread INFO Country       : NL
```

Questions via Sli-do

Is your organization using ArcGIS Pro now or will it start using it within the next 2 years?

- Yes, also for the production of ERM
- Yes, but not for the production of ERM
- No

Do you use other tools next to the ERM Validator to validate your ERM data?

- No
- Yes
 - If yes, why? (e.g. missing checks in ERM Validator?)

EG Producer Meeting, Online, 22-23 September 2020

Thank you for your attention!

Contact:

Email: qmeg@kadaster.nl

