

Map of Research Infrastructure as a tool of Information System for Research, Development and Innovation

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Starting point

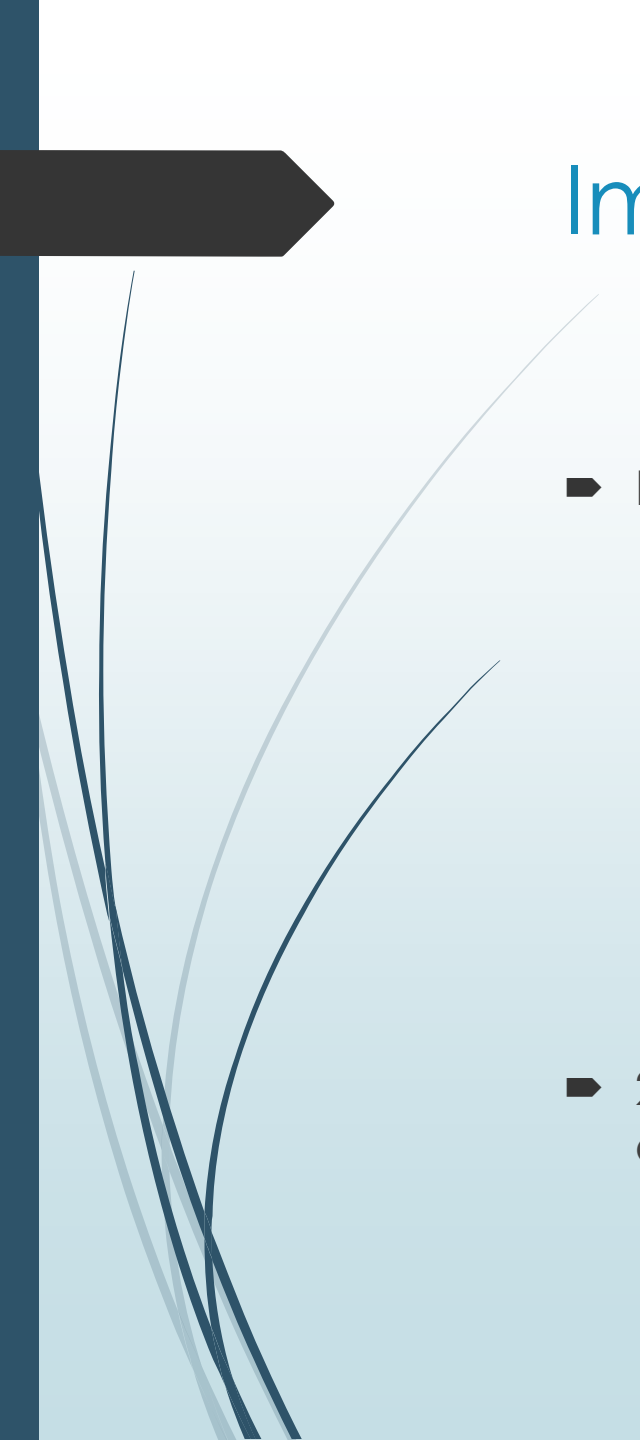
- European policy defined by ESFRI; ESFRI roadmap
- European projects: MERIL, CatRIS -> methodology of RI evidence
- EU Standards for research information- CERIF considers RI as important entity
- Slovak RI Roadmap 2020-2030
- Register of RI as part of Slovak CRIS system (www.skcris.sk) is defined by legislation



Slovak RI Roadmap 2020-2030

This material was prepared by the Ministry of Education, Science, Research and Sports of the Slovak Republic in cooperation with World Bank experts and representatives of the Research Agency. It:

- Monitors the current state of RI
- Identifies established international RI
- Frameworks a system of assessment, monitoring, management and financing RI
- establishes a vision and specific measures for the development of RI of the Slovak Republic in the next period



Important RI in Slovakia

- ESFRI infrastructures membership
 - Health & Food : ECRIN ERIC – European Clinical Research Infrastructure Network; INSTRUCT ERIC - Integrated Structural Biology Infrastructure
 - Energy, Physical sciences: European XFEL - European X-Ray Free-Electron Laser Facility; HL-LHC - High-Luminosity Large Hadron Collider; ILL - Institut Max von Laue - Paul Langevin
 - Social & Cultural Innovation: CESSDA ERIC - Consortium of European Social Science Data Archives; ESS ERIC - European Social Survey
 - E-infrastructures: ESS ERIC - European Social Survey
- 20 important national RI : scientific parks at universities, centres of excellence, research centres, National Gene Plant Bank etc.

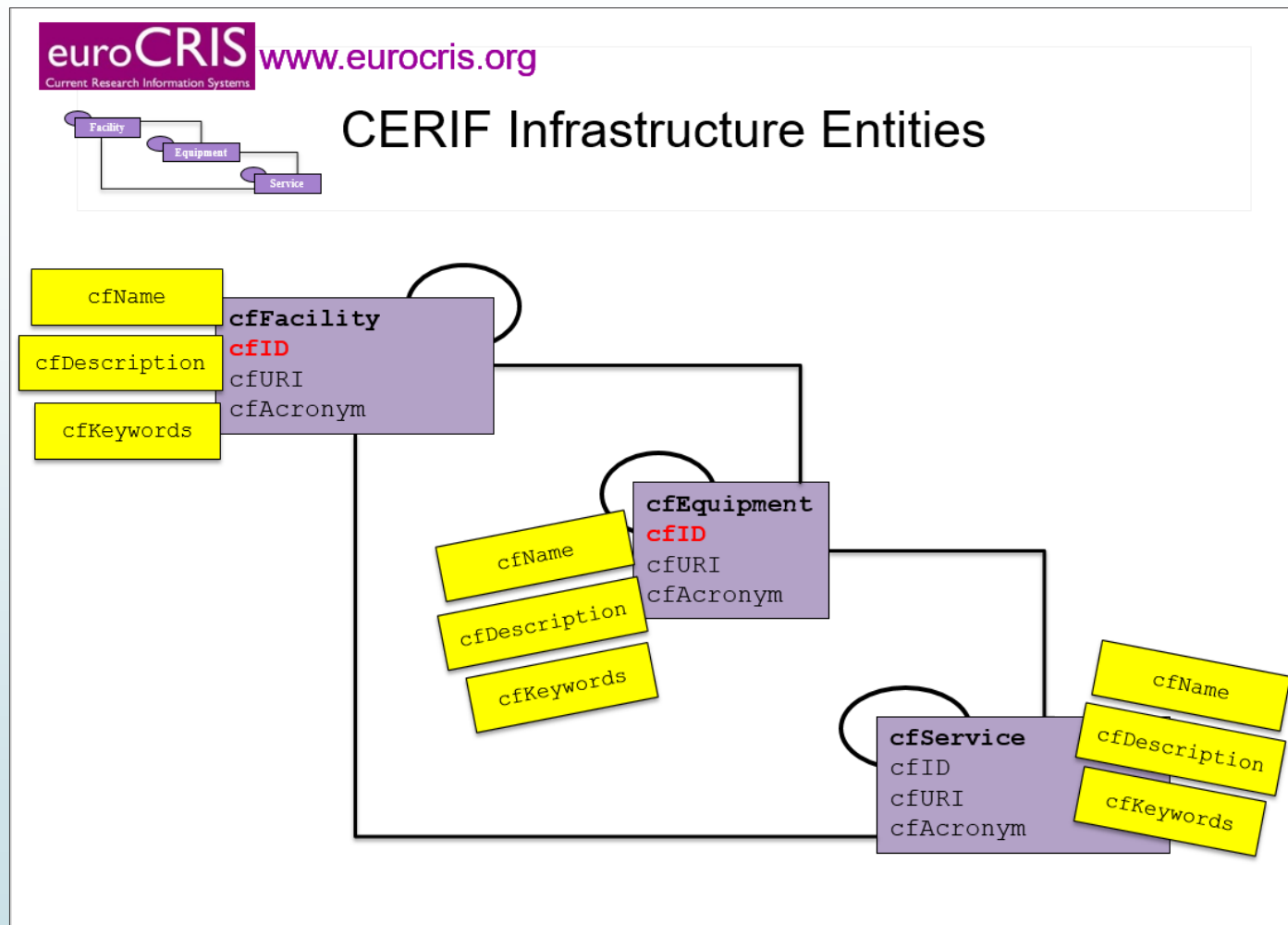


Software solution

We take into account initial situation:

- European standards for RI – format CERIF
- Classification standards for RI – MERIL, CatRIS
- Software solutions across Europe (ETIS, Research.fi and SICRIS)
- Data of Research Agency
- Architecture of the SK CRIS system
- Data collection processes implemented within SKCRIS.

CERIF



Slide by Jan Dvořák, 2015

<https://dspacecris.eurocris.org/bitstream/11366/380/1/CERIF%20tutorial%20Paris%2020150511.pptx>

Data model

MERIL	CATRIS Provider Profile	CATRIS Service Profile
Name of RI	ID	ID
Keywords	Name	Name
Acronym	Abbreviation	Service Organisation
Life cycle status	Website	Website
Legal status	Description	Description
Type of RI	Logo	Tagline
ESFRI participation	Address	Logo
Location Country	Contacts	Scientific Domain
Scientific domain		Category
MERIL 2 RI Category		Target Users
ESFRI domains		Geographical and Language Availability
Participating/Coordinating Country		Contacts
Access Type		TRL
Access Mode		Order Type
User Definition		
User Demographic		
User Types		
Number of Users		
Services		

We see a continuous development of data model at European level. Data structure was last adapted to the requirements of EOSC. The projects MERIL and CatRIS were both finished.
=> SW solution should be flexible and open for future changes

SW solutions

Search target ▼

For example, publication, field of science, keyword

SEARCH

Search help ▼

Publications 627 627	People Coming soon	Projects 8 591	Research data 11 169	Infrastructures 155	Other research activities Coming soon	Organizations 75
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Displaying results 1 - 10 / 155 10 results / page

What infrastructure information is included in the service?

Infrastructures - 155

Filter results

Starting year

Select interval

From - To

Select individually

- | | | |
|--------------------------|------|----|
| ☐ | 2022 | 3 |
| ☐ | 2021 | 2 |
| ☐ | 2020 | 10 |
| ☐ | 2019 | 8 |
| ☐ | 2018 | 11 |
| ☐ | 2017 | 11 |
| ☐ | 2016 | 10 |

ABBREVIATION	NAME	ORGANIZATION
-	Automaatiotekniikan laboratorio	Lapland University of Applied Sciences
-	Services: 1	
-	Puulaboratorio	South-Eastern Finland University of Applied Sciences
-	Services: 1	
-	Koneautomaation laboratorio	Lapland University of Applied Sciences
-	Services: 1	
TAMK Fiihiskeskus	TAMK Fiihiskeskus	Tampere University of Applied Sciences
-	Services: 1	
-	Hyvinvointiapteekki	Lapland University of Applied Sciences
-	Services: 1	

SI CRIS	ISKANJE osnovno, napredno ...	STC bibliogra
Osnovno iskanje		
Zadetkov: 1035 XML JSON		
Iskali ste:		
NAZIV OPREME	LETO NABAVE	NABAVNA VREDNOST
"3D-DLS Research Lab" raziskovalni instrument za merjenje (3D) dinamičnega in statičnega sipanja laserske svetlobe	2007	131.495
"Flash"/preparativni kromatografski sistem	2020	80.027
2D LDA SYSTEM: 2D FLOWEXPLORER, SPECTRUM	2015	108.191
3D - tiskalnik za biomedicinske aplikacije	2016	99.430
3D interferenčni optični profilometer	2020	113.156
3D kapilarna elektroforeza G1600 z Uv-Vis detekcijo	2006	49.022
3D tiskalnik ENVISIONTEC PERFACTORY XEDE 3SP	2015	333.230
3D tiskalnik ProJet 3510 SD	2015	42.294
3D traversing system: mechanism range, controller, line voltage 100-250V	2015	25.605
3D/4D digitalni diagnostični ultrazvočni aparat za aplikacije v ginekologiji Accuvix-xq.prestige	2007	124.380

Staff	R&D institutions	Projects
Publications	Supervision	Industrial p

Home » Research » Scientific equipment

Search scientific equipment

Search word

Type

-select -

ETIS classification

-select -

« 1 2 3 4 5 ... 40

The device	filter...	filter...	filter...	filter...
☐ Airtightness Measurement System BlowerDoor	Analytical and measuring instruments	BlowerDoor	Martti-Jaan Miljan	Estonian University of Life Sciences, Institute of Forestry and Rural Engineering, Chair of Rural Building and Water Management
☐ FLUORESCENCE SPECTROMETER	Analytical and measuring instruments	PERKIN ELMER	Peep Palumaa	Tallinn University of Technology, School of Science, Department of Chemistry and Biotechnology

[Fakulteta za energetiko](#)inženiringa
(nejedrskega)[Univerzitetni klinični center Maribor](#)[Takač Izток](#)Raziskovalna oprema
za klinične raziskave

Paket 13

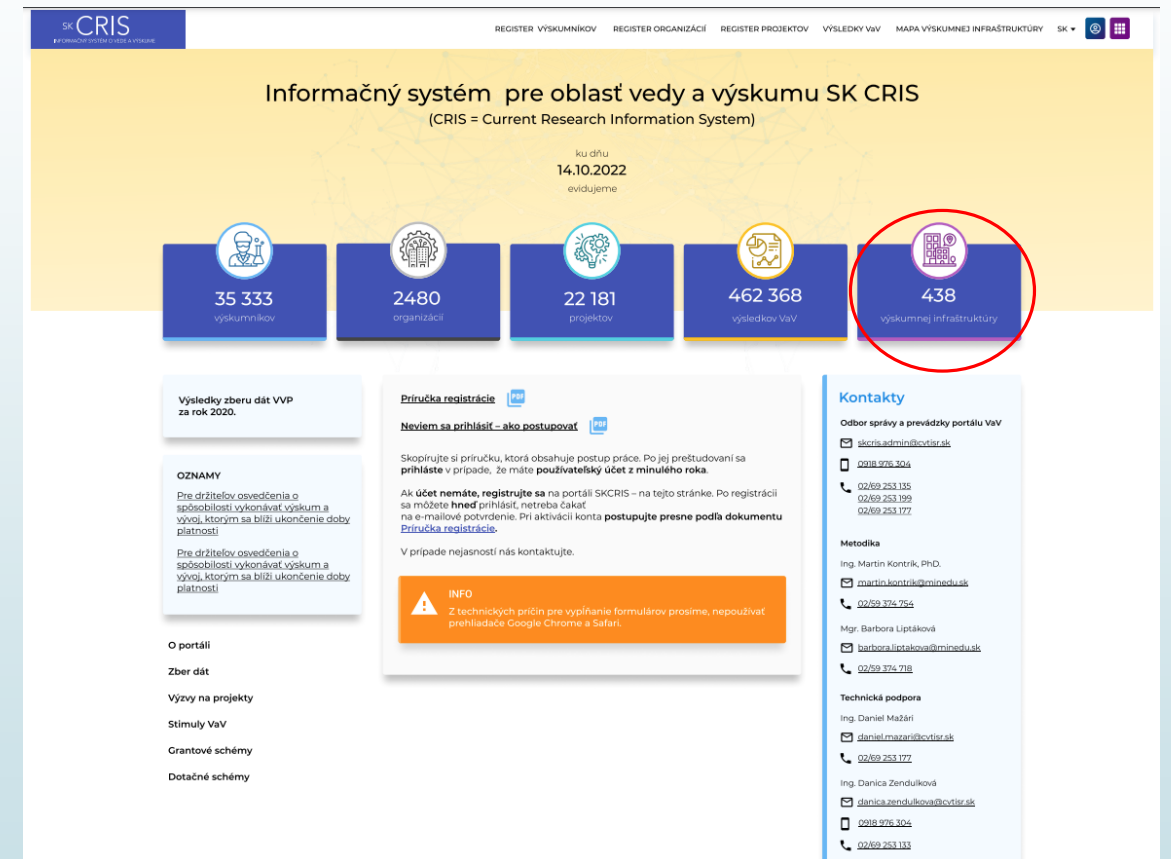
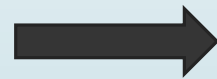
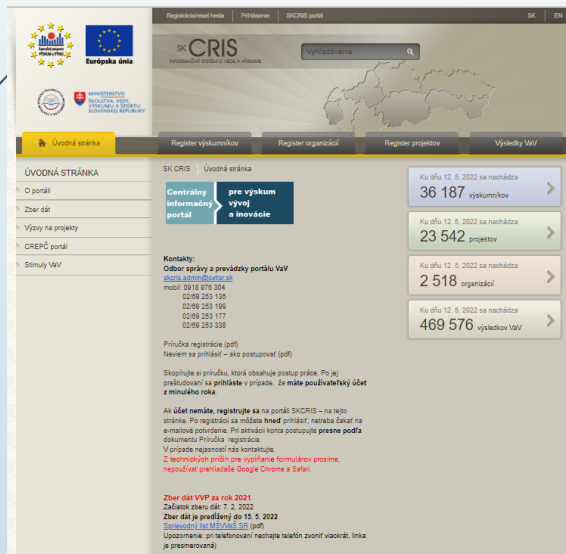
Data of Research Agency

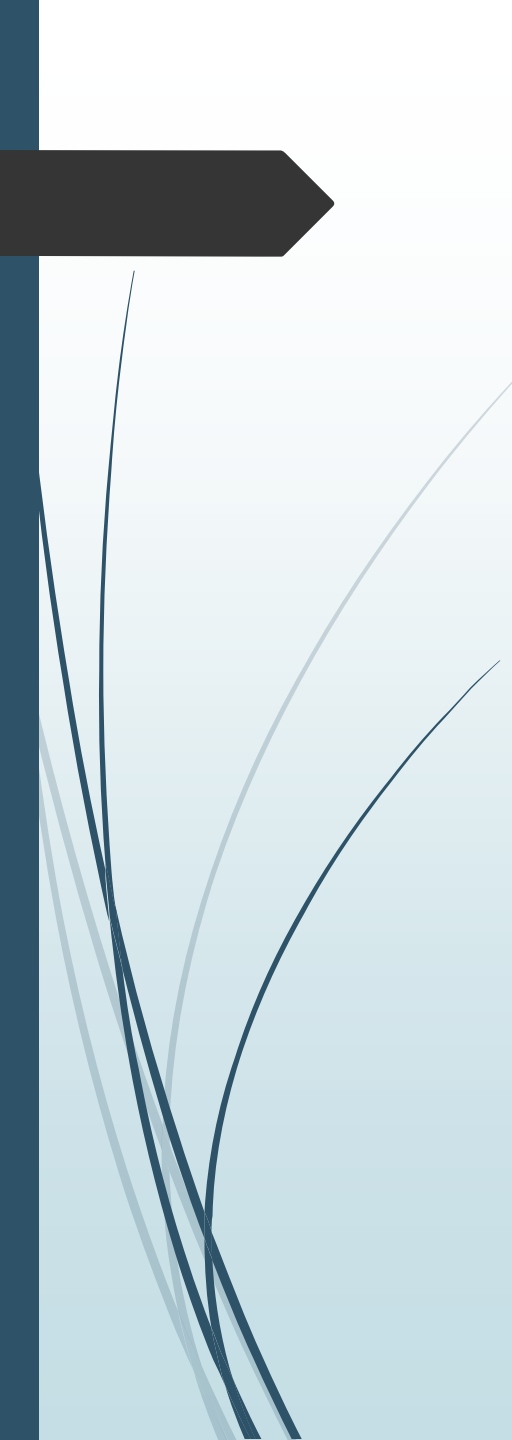
- Name of infrastructure
- Meril category
- Acquisition price
- Number of pieces
- Related organisation `cerif.cfOrgUnit_Facil`
- Related project `cerif.cfProj_Facil`
- Related person `cerif.cfPers_Facil`

A	B	D	F	H	J	N	O	P	Q
Druh/typ technického, prístrojového a laboratórneho vybavenia - názov zariadenia (zariadenia v rámci jedného laboratória/resp. iného celku je potrebné uvádzať za sebou)	Kategória MERIL	Obstarávacía cena	Počet kusov	Subjekt	Mesto	Rok obstarania - upravený	Zdroj financovania	ITMS	Meno a priezvisko
2 HPLC Agilent 1100 AD	4. Systémy na analýzu	13 930,60	1	Slovenská technická univerzita v Bratislave	Bratislava - Staré mesto	2012	MŠVVaŠ SR	n/a	Ing. Peter Halada
3 Zariadenie na testovanie ochrany voči vniknutiu vody stupňa -IPX3+4	30. Elektrické a optické inžinierske systémy	46 200,00	1	OMS, spol. s r.o.	Dojč	2014	EŠIF	26220220150	Veronika Bízková Čiunková
4 "Bublinový" surfaktometer s príslušenstvom	10. Biomedicínske zobrazovacie systémy	81 643,13	1	Univerzita Komenského v Bratislave	Martin	2013	EŠIF	26220120036	Ing. Tomáš Antoš
5 (DKU Frame, DKA Adapter Set, 8GB cache Memory, 4x 600GB/15k FC Array Group, 1x Spare HDD,	Nie je žiadne unikátne výskumné zariadenie, ale lokálna IKT infraštruktúra.	368 452,00	1	Žilinská univerzita v Žiline	Žilina	2013	EŠIF	26230120001	Ing. Štefan Šedivý, PhD.
6 Monitorovacie zariadenie	17. Výskumné zariadenia pre klinický výskum	107 820,00	1	rakovitna nemocnica s poliklinikou nove	Nové Zámky	2013	EŠIF	26220220126	Mgr. Petra Mikolášová
7 Operačný stôl	17. Výskumné zariadenia pre klinický výskum	108 240,00	1	Žárúltina nemocnica s poliklinikou nove	Nové Zámky	2013	EŠIF	26220220128	Mgr. Petra Mikolášová
8 Pamäťový osciloskop WavvRunner	46. Systémy v oblasti strojárstva	64 776,00	1	EVPU, a.s.	Nová Dubnica	2013	EŠIF	26220220153	Ing. Marek Franko, PhD.
9 3D merací súradnicový stôl	46. Systémy v oblasti strojárstva	81 360,00	1	EVPU, a.s.	Nová Dubnica	2013	EŠIF	26220220153	Ing. Marek Franko, PhD.
10 Osciloskop TDS3054C	46. Systémy v oblasti strojárstva	11 802,00	1	EVPU, a.s.	Nová Dubnica	2013	EŠIF	26220220153	Ing. Marek Franko, PhD.
11 Prúdová sonda	46. Systémy v oblasti strojárstva	10 590,00	2	EVPU, a.s.	Nová Dubnica	2013	EŠIF	26220220153	Ing. Marek Franko, PhD.
12 Veľkoformátový A3 scanner na RTG snímky	17. Výskumné zariadenia pre klinický výskum	19 980,00	1	rakovitna nemocnica s poliklinikou nove	Nové Zámky	2014	EŠIF	26220220126	Mgr. Petra Mikolášová
13 Softvérový upgrade operačného mikroskopu	17. Výskumné zariadenia pre klinický výskum	24 960,00	1	Žárúltina nemocnica s poliklinikou nove	Nové Zámky	2013	EŠIF	26220220126	Mgr. Petra Mikolášová
14 Vykreslovacie pci karty pre 3D výpočtové stanice-DeltaCast DELTA-HD-E 02	17. Výskumné zariadenia pre klinický výskum	24 360,00	1	Žárúltina nemocnica s poliklinikou nove	Nové Zámky	2014	EŠIF	26220220126	Mgr. Petra Mikolášová

Register of RI and SK CRIS

- SKCRIS main webpage after upgrade
- Map of RI – rectangle on the right





Specifics of collecting and processing research information

These are mainly:

1. Method of data collection on research infrastructures.

- online data entry form for research organizations;
- API for importing data from external systems, mainly grant

2. Connection to SK CRIS entities.

- link with the existing basic entities of SK CRIS, especially with the organizations that operate the infrastructure.
- In the event that the infrastructure is created within a research project, resp. is funded or used within the project, this link will be recorded.
- A link to the responsible person will also be established, if the relevant data is available.

3. Classification schemes for research infrastructure should respect the SK CRIS classification scheme system.



Thank you very much
for your attention