



2024 CONFERENCE ON EDUCATION DATA AND STATISTICS

Institutional Capacity Assessment Framework (ICAF)

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HLSC's Functional Areas (FAs)

▶ HLSC promotes efficient and effective cooperation and harmonized actions at the global and regional levels through three FAs:

1. Promote evidence-based policy formulation and implementation (FA1: Evidence & Policy)
2. Monitor progress and improve the availability/use of data (FA2: Data & Monitoring)
3. Drive financing mobilization and improve alignment (FA3: Financing)

▶ **FA1 (Evidence & Policy):** Strengthen the institutional capacities of education authorities to use data and evidence for policy, planning, and implementation

Strengthen country capacity: support gov.s in using evidence

Increase the accessibility of locally relevant research and evidence syntheses

Promote regional cooperation through peer learning & collab.
Support evidence-uptake through **systematic mapping of actors**

Produce global public goods
Advocate for evidence-based policy

Why the Institutional Capacity Assessment Framework?

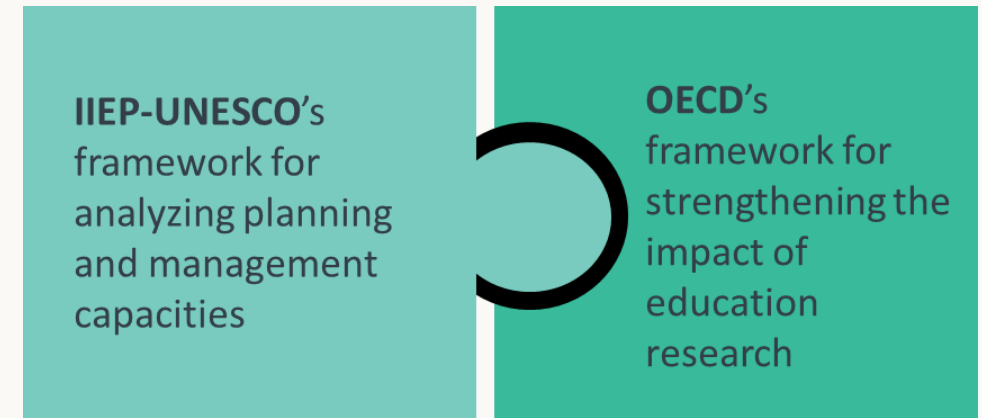
- ▶ Gap between **availability of data and evidence** and their **use in policy formulation and implementation**
 - particularly true for student learning assessment data (IIEP, 2021)
- ▶ Root of the constraints to using data for improving policy partially lies in the **sub-optimal institutional capacities** of ministries of education at different levels
- ▶ 2022 Sustainable Development Goals Report :
 - serious data use gaps persist in education
 - need to strengthen the capacities of developing countries for using data and monitoring results and research findings
 - ensure effective evidence-based decisions and results-oriented progs
- ▶ IIEP-UNESCO and OECD combine their respective strengths and experience to address this gap:
 - IIEP: Institutional analysis, ESA
 - OECD: Use of research evidence and data for policy-making, PISA, and technical assistance



What is the Institutional Capacity Assessment Framework (ICAF)?

- ▶ A comprehensive Institutional Capacity Assessment Framework (ICAF) and corresponding methodological tools
- ▶ Aims to:
 - Assess and help strengthen the capacity of ministries of education – at different levels of the system – in the effective use of data and evidence for informing policy making and planning
 - Identification of strengths, challenges, and recommendations for improvement
 - Translation into an implementation plan, together with stakeholders (“co-construction”)
- ▶ Tailored to countries’ needs
 - Agencies/organisations - at different levels of the system
 - Areas of focus

- ▶ Building on:



ICAF Methodology

ICAF tested and refined in pilot countries through a mixed-method consisting of:



1. Desk study,
including mapping of
existing capacity
development
opportunities



2. Semi-structured
interviews and
online
questionnaires

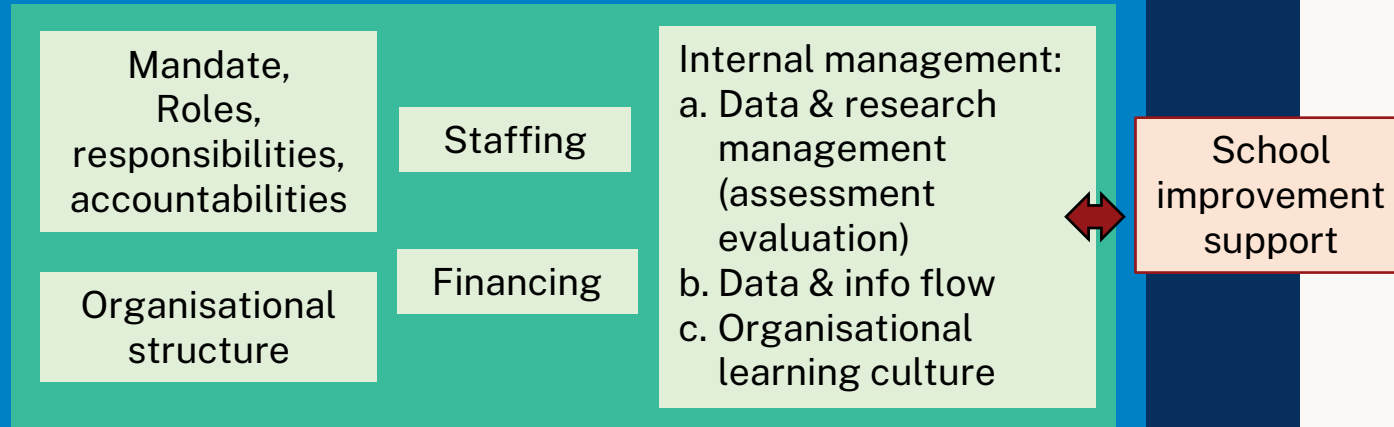


3. Peer learning
event(s) with
national and/or
international
stakeholders

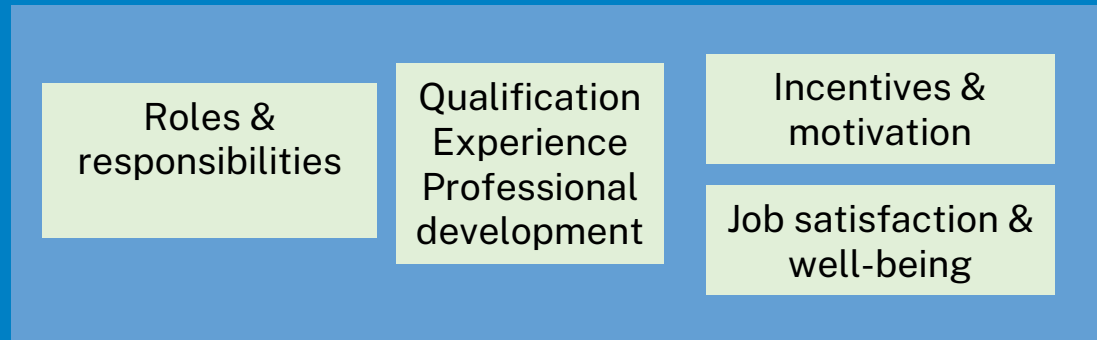
In practice: Trialing of online questionnaires adapted to local contexts

Educational administration (system)

Organisation (MoE, local authority)



Individual



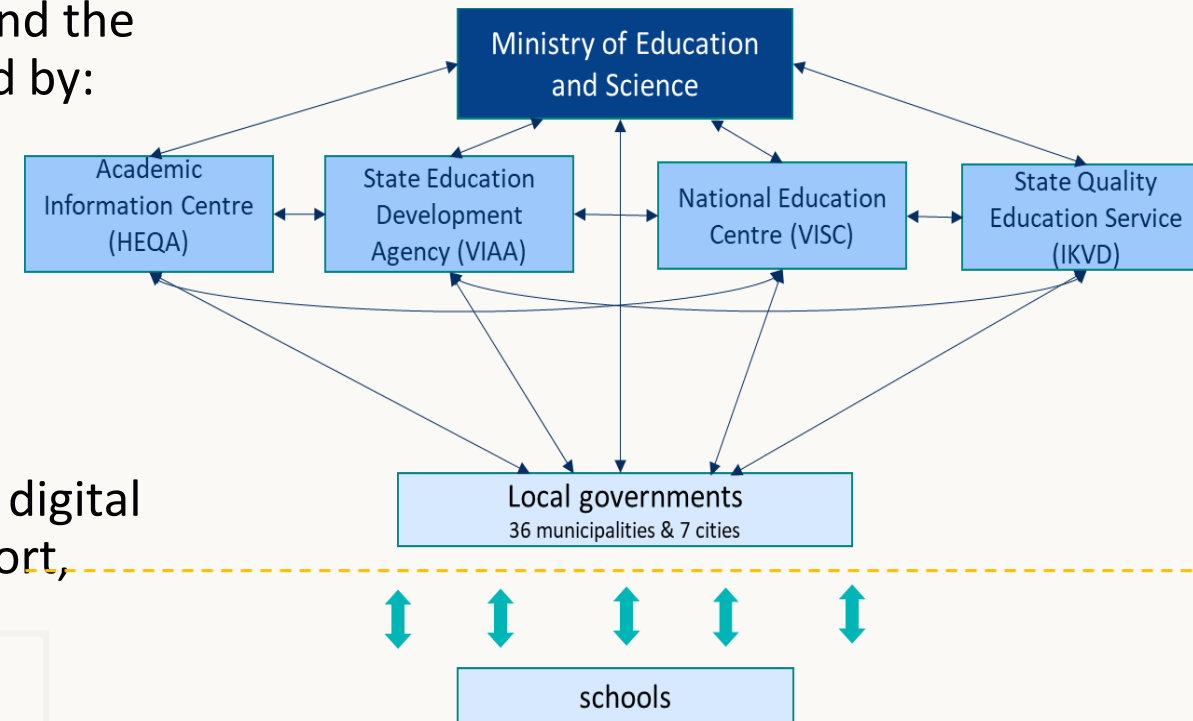
MoE and National Agencies /Local authorities

1. **You and your job**
 - role, educational background, clarity of roles and responsibilities
2. **Your Organization's learning capacity**
3. **Use of data for education quality monitoring and school improvement support**
 - types of data used, gaps, available tools
4. **Your professional development**
 - needs, barriers
5. **Your job satisfaction and well-being**



Pilot 1: Latvia

- ▶ Project title: Optimising the institutional capacity for education quality monitoring and school improvement support in Latvia
- ▶ Institutional capacity assessment focused on education quality monitoring (data and research evidence) and the provision of school improvement support provided by:
 - the Ministry of Education and Science
 - 4 national agencies
 - 43 municipalities
- ▶ Trailing of methodological innovations
- ▶ Expanding the ICA Framework: data and research, digital learning infrastructure, school improvement support, organisational learning culture.



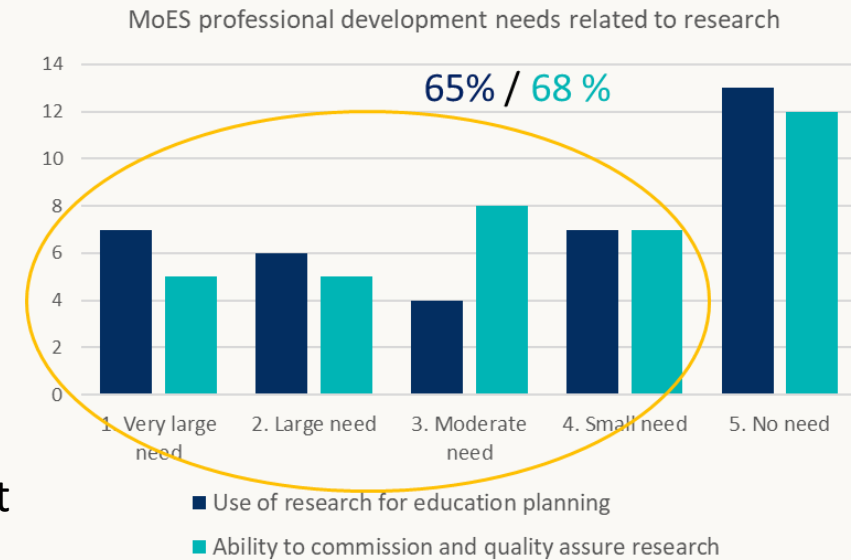
Pilot 1: Latvia - Selection of preliminary findings and recommendations

► Education quality monitoring

- Need for a comprehensive strategy for standardized student assessments and exams
- Updating of MoES State Quality Education System -> data aggregation and visualization platform
- Lack of clarity on “what is a good school”? -> need for aligning different policies and tools
- Consolidation and strengthening of research capacity -> MoES

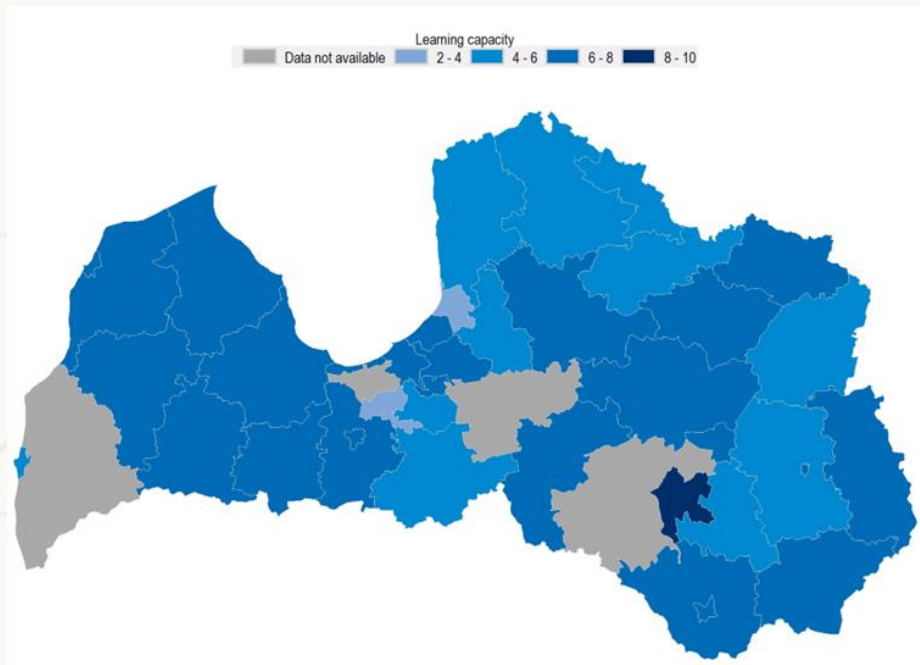
► School improvement support

- Mandate/mission “creep”
- Explicit allocation of responsibility for school leadership development support -> National Centre for Education
 - Latvia’s conceptualization of its school improvement support system

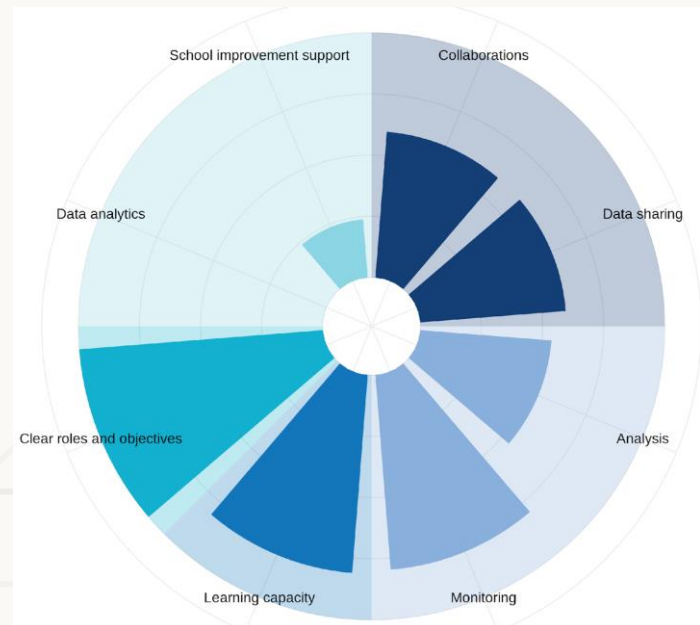


Pilot 1: Latvia - Selection of preliminary findings and recommendations

- ▶ Optimising the organisational capacity of municipalities
 - Matching the clarification of roles and responsibilities with strengthening of municipalities' organisational capacities
 - Including by optimizing the staffing for school improvement support
 - Establish “guiding” (i.e. not mandatory) standards for the number(s) of school improvement officers
 - Develop common job profiles



Municipality “A”

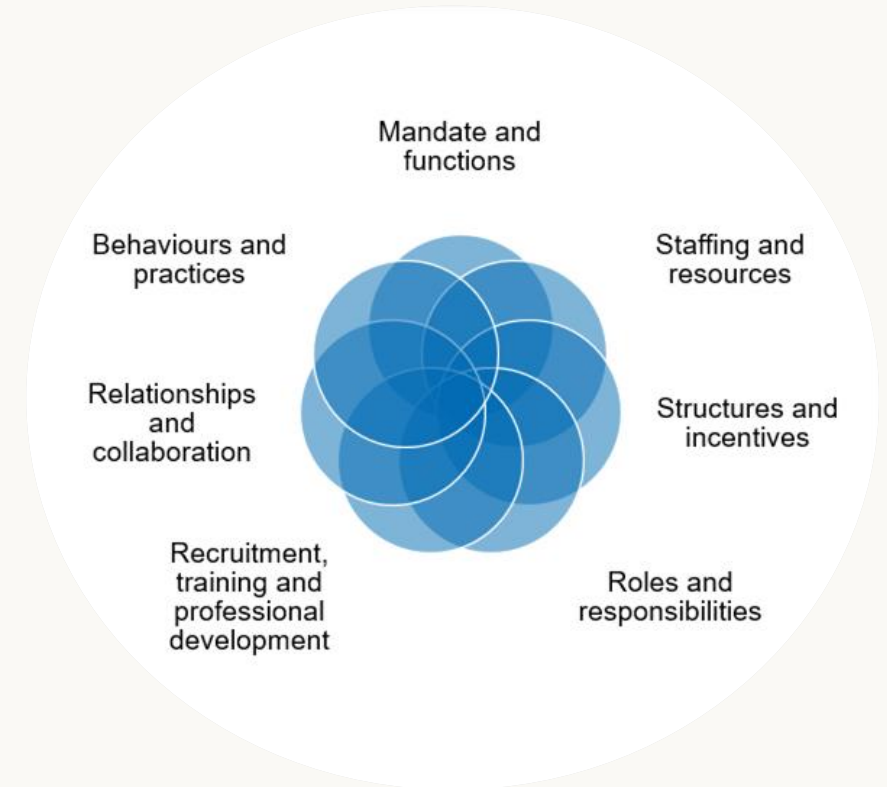


Municipality “B”



PILOT 2 : Pakistan

- ▶ **IIEP-UNESCO Research project on ‘Leveraging the potential of the middle tier’**
- ▶ Conducted in the framework of the GLSEP programme
 - enhancing girls’ access to quality lower secondary education
 - need to assist **District Education Officials (DEOs)** in effective school supervision, data management and community engagement
- ▶ First phase includes:
 - interviews with central level authorities
 - focus group discussion with officials at province and district level on roles and bottlenecks



Next steps



Further pilot tests planned for 2024 - 2025



ICAF methodology and tools to be refined and made available as a global public good



Development of an Institutional Capacity Toolkit for Using Data and Evidence to Address the Learning Crisis



Mapping of partners' capacity development activities on the use of data/evidence for policy, planning and implementation





Pre-Conference Engagement Day
6 FEBRUARY 2024

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CONFERENCIA SOBRE
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CONFÉRENCE SUR LES
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UNESCO HEADQUARTERS, PARIS, FRANCE



**2024 CONFERENCE ON
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**Pre-Conference
Engagement Day**

**Supporting MoEs to use data and information
on risks of crises: guidelines and toolkit for
the inclusion of EiE data into the EMIS**

Diogo Amaro, Programme Specialist, d.amaro@iiep.unesco.org

Crisis- and climate-sensitive educational planning

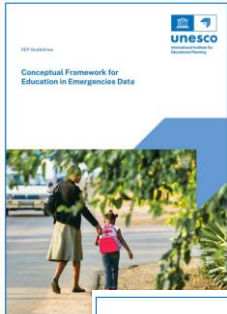
The planning cycle



How can EiE data be used throughout the planning cycle?

- ▶ Target policies and resources (e.g. identify groups more at risk of being left behind and the barriers to equity)
- ▶ Monitor and evaluate policy results (e.g. track progress and learn from what works and what does not)
- ▶ Advocacy (e.g. call for action, resource mobilization)

The Global Public Goods



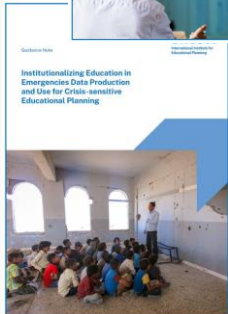
1. EiE data conceptual framework

- Build a shared understanding around definitions, concepts and processes on EiE.
- Provide a conceptual foundation for a series of UNESCO-IIEP guidelines on EiE data.



2. EiE data diagnosis tools

- Approaches and tools for identification of EiE data needs, data availability, stakeholder analysis and quality assessments.



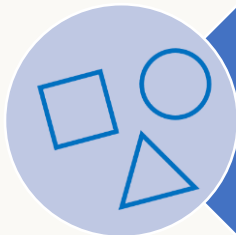
3. Guidelines for EiE data institutionalisation

- Compilation of good practices to build institutional awareness and develop national capacities to strengthen the EiE data landscape.

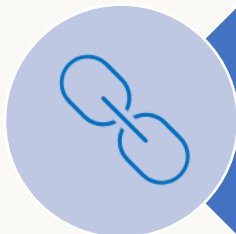
1. EiE data conceptual framework



Build a shared understanding around definitions, concepts and processes that underpin and guide work on data for EiE and resilience

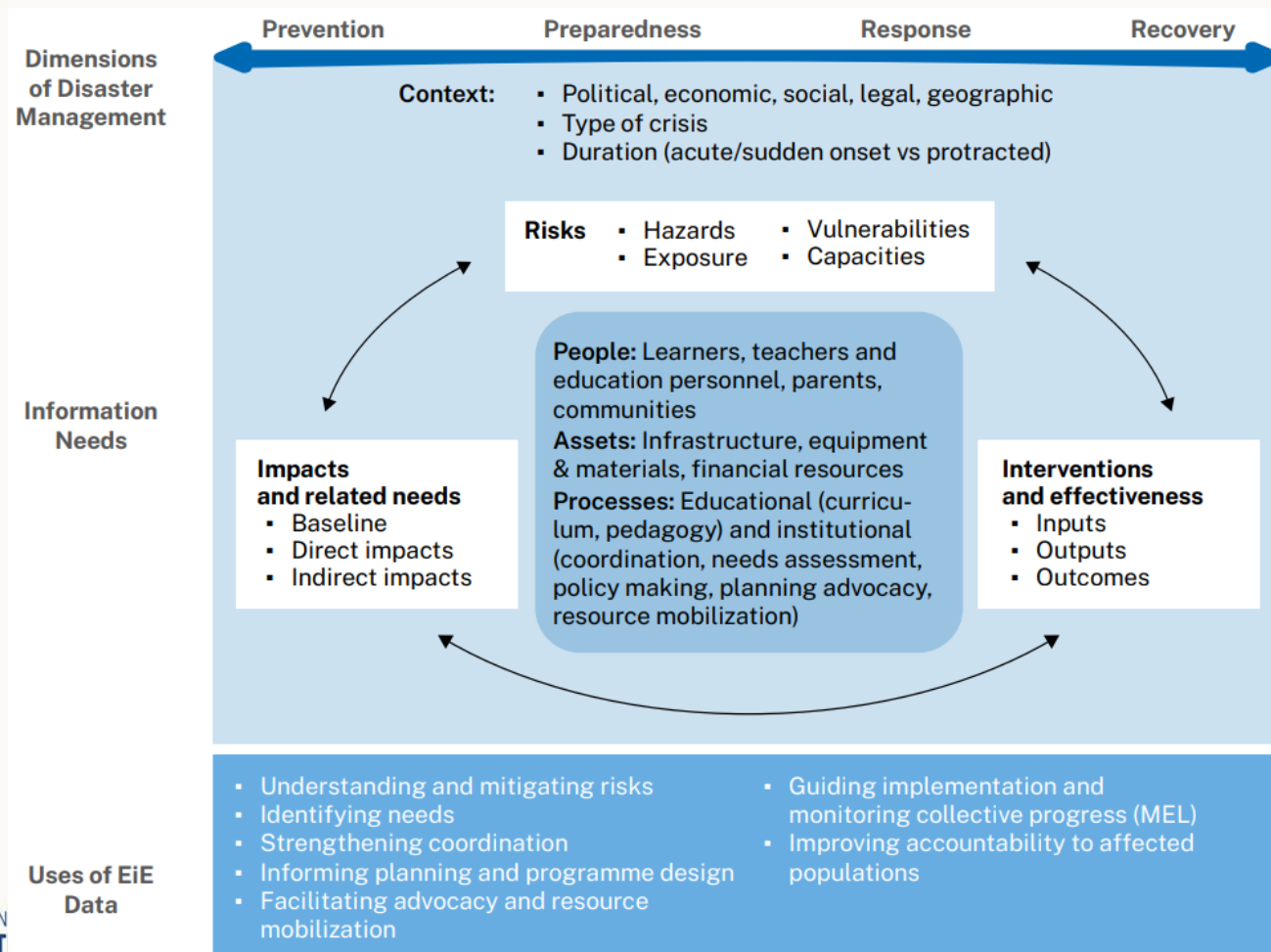


Bring together existing work on EiE data, as well as on coordination across the humanitarian-development nexus



Provide a conceptual foundation for a series of guidelines and tools developed by UNESCO, as well as the remaining Global Public goods

1. EiE data conceptual framework



2. EiE data diagnosis tools

Diagnosis phase	Tool
1. Identification of EiE normative data needs	Tool 1. Risk analysis of hazards Tool 2. Identification of data needs and data coverage
2. Mapping of the EiE data ecosystem	Tool 3. Mapping of data producers and data sources relevant for EiE Tool 4. Questionnaire to review the coordination of data production activities within the EiE data ecosystem
3. Quality assessment of the most relevant EiE data sources	Tool 5. EMIS Data Quality Assessment (EMIS_DQA) matrix Tool 6. Education in Emergencies Data Quality Assessment (EiE_DQA) matrix
4. Coverage of information needs and data gaps	Tool 2. Identification of data needs and data coverage

[Click here to download the tools which are also available via the tool icon.](#)



2. EiE data diagnosis tools – Ecosystem mapping in Jordan

▶ International organizations

▶ MoE

- Open EMIS (includes GIS data) WebGIS school maintenance module National assessments
- Emergency school planning
- Evaluation report

▶ Other government data

- Household Expenditure and Income Survey
- Labour force survey
- Unemployment survey
- National budget
- Technology in school survey
- Census
- JRGC spatial data

- Humanitarian Data Exchange (HDX) UNHCR Operational Data Portal OCHA
- HNOs and HRP contain information on populations in need by sector and contextual information
- The Emergency Events Database (EM-DAT), ACLED
- EGMA / EGRA TIMSS / PIRLS
- UNICEF (national diagnosis assessment)
- CPIMS Child protection information management system
- Bayanati ('My data'), Three stars approach (WASH) DHS
- IDMC, Physical Assessment Survey, IOM DTM
- UNHCR: proGres (registration data base), RAIS population census (Refugee Assistance Information System) and demographic data, VAF (Vulnerability assessment framework), Resilience assessment framework

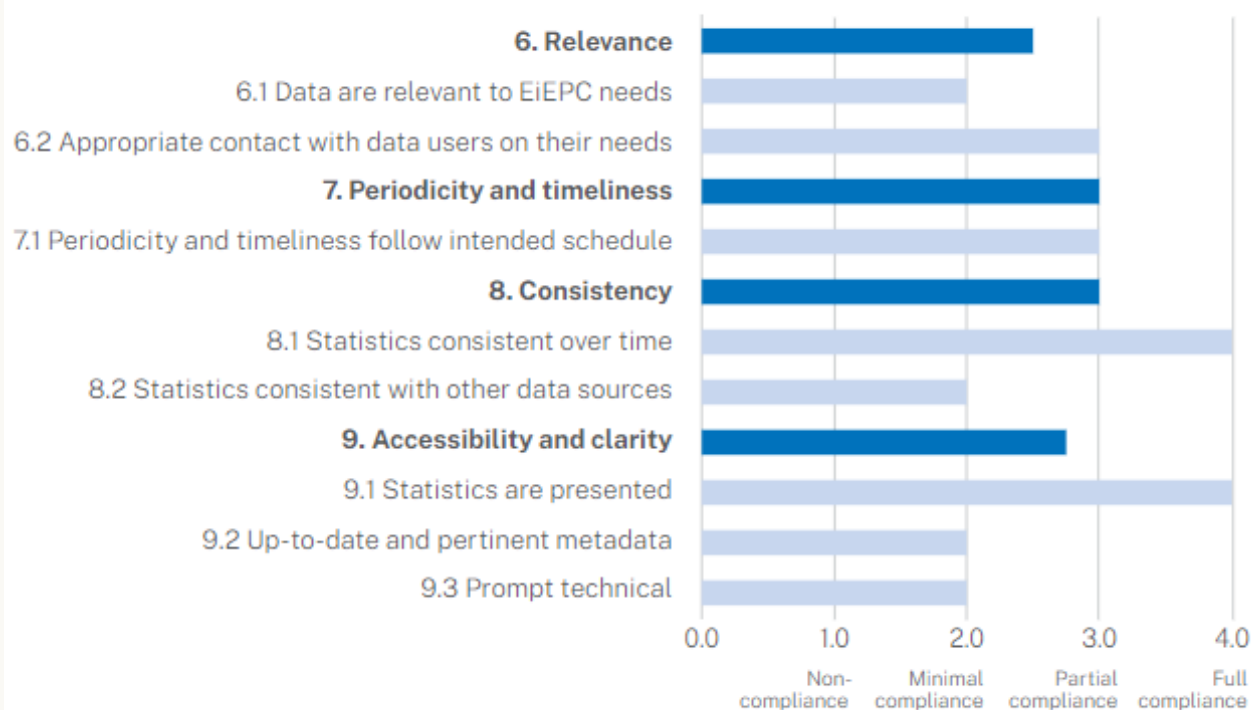
Tool 3. Mapping of data producers and data sources relevant for EiE - Examples

In blue in this table: examples provided to facilitate the understanding on the type of information to be recorded.

	Options and comments to fill in the table	Data source 1	Data source 2	Data source 3
Data source characteristics	Name of data source	National School Census	Multipurpose national household survey	
Name of data producer	Agencies responsible for definition of survey objectives, collection, analysis, and dissemination of data (list primary agency first, if more than one); include agencies and groups both within the country and outside, as applicable.	National Ministry of Education	National Statistical Office	
Type of data producer	<ul style="list-style-type: none"> • Government agency • National NGO • International NGO • International organization 	Government agency	Government agency	
Type of data source	<ul style="list-style-type: none"> • Humanitarian education response data • Educational development data • Contextual data 	Educational development data	Education development data	
Data collection sample	<ul style="list-style-type: none"> • Census. • Probabilistic sample • Non-probabilistic sample 	Census	Probabilistic sample	

2. EiE data diagnosis tools

Figure 6. Presentation of DQA results



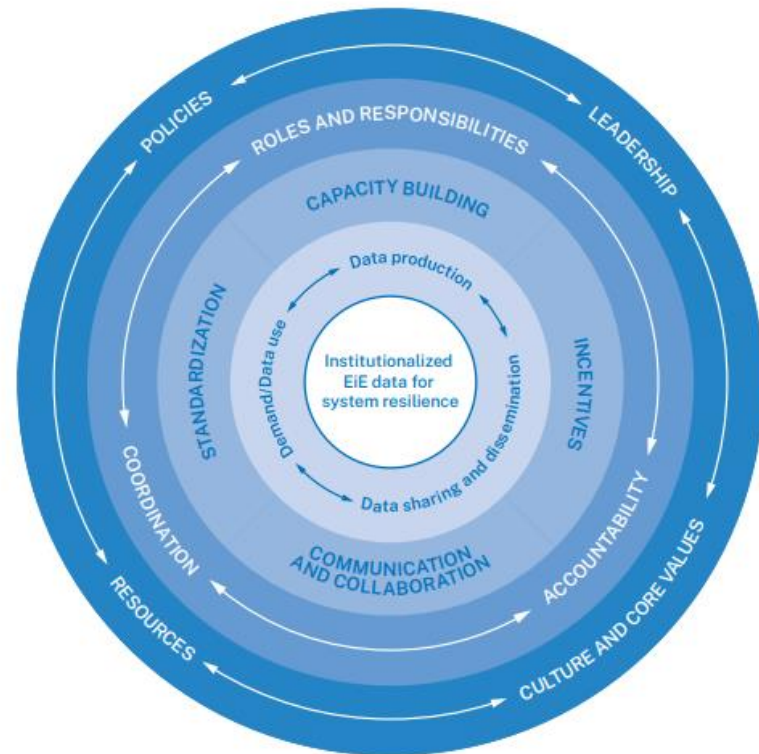
Source: Extracted from the EMIS_DQA matrix (Tool 5), based on a hypothetical example.

3. EiE data institutionalization

▶ Guidelines and compilation of good practices to:

- Build institutional awareness and commitment
- Support the development or adaptation of relevant policies and frameworks
- Strengthen EiE data harmonization through improved communication, coordination, data sharing protocols and data dissemination platforms
- Support national capacity strengthening across the data value chain (e.g. production, use, re-use for planning, monitoring & evaluation...)

Figure 1. Model of institutionalized EiE data



Source: Authors, based on existing models of institutionalization, including Kuchenmüller et al. (2022), IIEP-UNESCO (2022), Maeda et al. (2012), USAID (2000).

How were the tools used in real life?

► Ecuador

- Provision of a series of recommendations in terms of data management and data coordination
- Identification of key data gaps, in particular concerning preparedness and prevention
- Development of a roadmap for implementation of the findings from the diagnosis

Hoja de ruta / 2023



Hoja de ruta para la implementación de recomendaciones derivadas del «Informe diagnóstico del ecosistema de datos para la educación en emergencias de Ecuador»

Oficina para América Latina y el Caribe, IIPES UNESCO



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Presentación

En enero de 2023, el IIPES UNESCO llevó a cabo un diagnóstico sobre el ecosistema de datos para la educación en emergencias (en adelante, EIE, por su nombre en inglés) en Ecuador. Como resultado, se elaboró un informe en torno a cuatro objetivos prioritarios. En primer lugar, presentar un mapa de riesgos y amenazas al sistema educativo para identificar las necesidades técnicas o normativas de datos para la EIE. En segundo lugar, realizar un mapeo del ecosistema de datos de EIE explorando las fuentes y los mecanismos de coordinación existentes. En tercer lugar, evaluar la calidad del Archivo Maestro de Instituciones Educativa (AMIE), una de las principales fuentes de información educativa. Por último, identificar el nivel de cobertura de las fuentes de información actuales en relación con las necesidades de información requeridas para la EIE.

A partir de los vacíos de datos identificados, se elaboró una propuesta de posibles ajustes a los dispositivos de recolección de datos existentes para que aborden esos faltantes de información.

1

How were the tools used in real life?

► Ecuador recommendations

Área	Faltante de datos	Sistema de información
Desastres naturales	Bienestar de los alumnos y del personal educativo	AMIE (módulo estudiante)
	Estructuras de las instalaciones y equipos escolares	AMIE (módulo infraestructura) y GIEE
	Esquema de virtualidad	GIA
	Trayecto entre casa y escuela	GIA y GIEE
	Identificación de los peligros en el camino de la escuela	AMIE en interoperabilidad con fuentes externas
	Características topográficas	AMIE en interoperabilidad con fuentes externas
	Proximidad de la escuela a centros de prevención y de cuidado	AMIE en interoperabilidad con GeoSalud

How were the tools used in real life?

► Jordan

- Development of joint report with UNESCO Amman
- Recommendations to enhance the EiE data ecosystem
 - Establishment of a Risk Management section to coordinate and share EiE data
 - Alignment of external sources of data with OpenEMIS
 - Common identifiers for students
- CRM data diagnosis will be used to inform the implementation of the country's Crisis and Risk Management strategy



تقييم نظام جمع البيانات لإدارة الأزمات والمخاطر (CRM) في المملكة الأردنية الهاشمية

نموذج (يونيو) 2023



السياق

تعتبر تلبية احتياجات التعليم في أوضاع الأزمات، مع منع وتخفيف المخاطر المعروفة والمحصلة، خطوة ضرورية لتحقيق هدف التنمية المستدامة الرابع (SDG 4)، وكذلك جميع أهداف التنمية المستدامة الأخرى.

يهدف إستراتيجية إدارة الأزمات والمخاطر (CRM) لوزارة التربية والتعليم (2023-2027) الجديدة إلى تقليل المخاطر وتعزيز المرونة من خلال الجهود التشاركية الفعالة والمكتملة التي تشمل جميع أصحاب المصلحة المعنيين، وتعزيز الاستخدام الأمثل للموارد في الاستعداد والاستجابة للمخاطر لضمان استدامة التعليم.

تتكون استراتيجية إدارة الأزمات والمخاطر من أربع مكونات رئيسية، ويهدف المكون الأول الخاص بتعزيز الأنظمة وإلزامها إلى إضفاء الطابع المؤسسي على إدارة الأزمات والمخاطر في جميع مستويات وزارة التربية والتعليم الأردنية بما في ذلك المتابعة والتقييم المعتمدين للمخاطر بالتعاون مع المركز الوطني للأمن وإدارة الأزمات (المكون الفرعي 1.1) الذي له انعكاسات على نوافذ البيانات واستخدامها. ويهدف تطوير تقييم بيانات إدارة الأزمات والمخاطر إلى إثراء هذا المكون الفرعي بالإحصاء إلى دعم متفحة وتقييم الاستراتيجية.

مقاصد الأهداف/الغايات

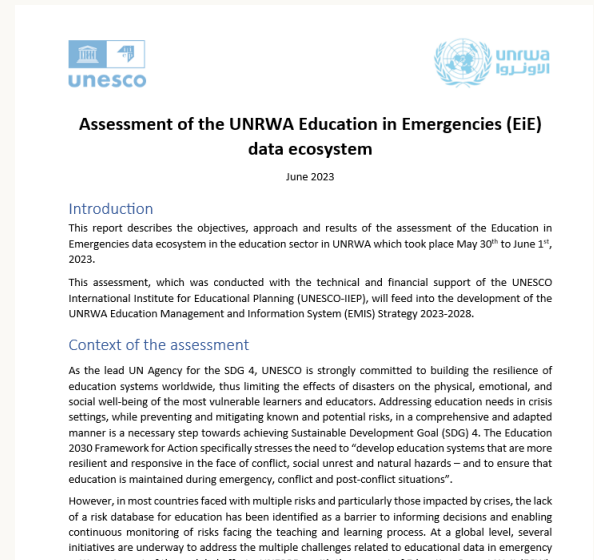
يهدف تقييم بيانات إدارة الأزمات والمخاطر في الأردن ووضع هذا التقرير إلى توجيه تنفيذ المكون الفرعي 1.1 من استراتيجية إدارة الأزمات والمخاطر، وكذلك تفعيل الاستراتيجية ومراجعتها وتقييمها على نطاق أوسع. والأسئلة التي وجهت للتقييم ما يلي:

1. ما هي البيانات الرئيسية التي يحتاجها الأردن لقياس الخطر والمخاطر التي حدثتها استراتيجية إدارة الأزمات والمخاطر لوزارة التربية والتعليم؟

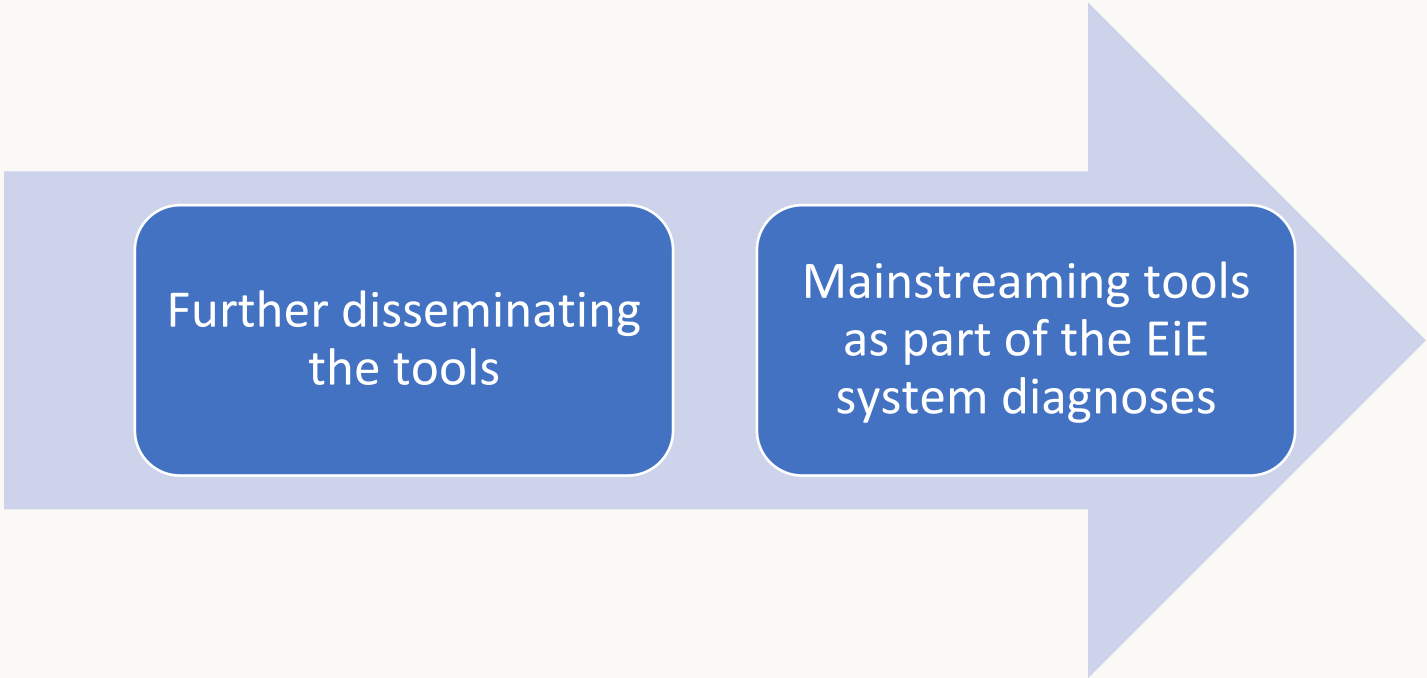
How were the tools used in real life?

► UNRWA

- Piloting self-administration of the tools
- Applied the tools to five contexts in parallel (Gaza, Jordan, Lebanon, Syria and West Bank)
- Diagnosis is being used to inform the UNRWA EMIS Strategy for 2023-2027
 - Capacity development
 - Coordination and data exchange across fields
 - Development of data sharing protocols
 - Integration with national tools (for example OpenEMIS in Jordan)



Next steps



Further disseminating
the tools

Mainstreaming tools
as part of the EiE
system diagnoses



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**Geospatial data for better
decision-making in education: the Togolese
experience with micro-planning**

Kossi Kpomegni TSALI, Director of Education, Planning and Evaluation, Ministry of
Primary, Secondary, Technical Education and Handicrafts of Togo



Digitalization of assets in Togo

The PRISE project

The PRISE project

- ▶ Objective: geolocating all social and economic infrastructures in the country
- ▶ Goal: Reduce inequalities between regions
- ▶ Sub-domains:
 - ▶ Water
 - ▶ Electricity
 - ▶ Health
 - ▶ Economy
 - ▶ Education
- ▶ Information:
 - ▶ Location
 - ▶ Type
 - ▶ State
 - ▶ Number of employees
 - ▶ Types of employees

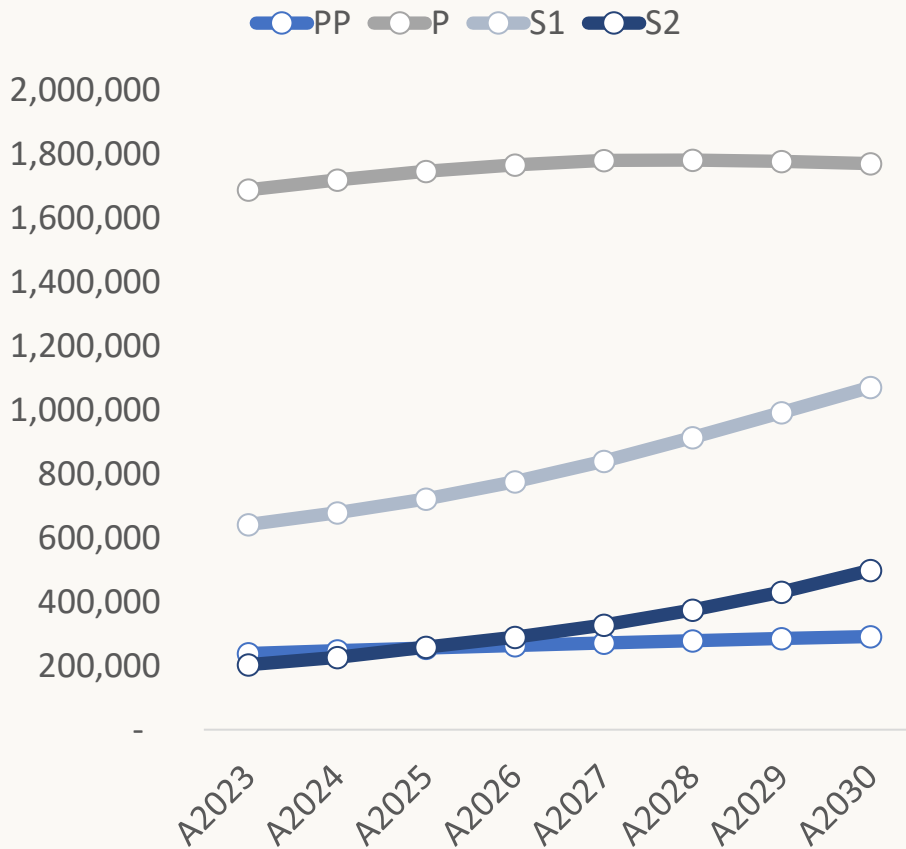


The school mapping exercise

The case of Togo

Main findings

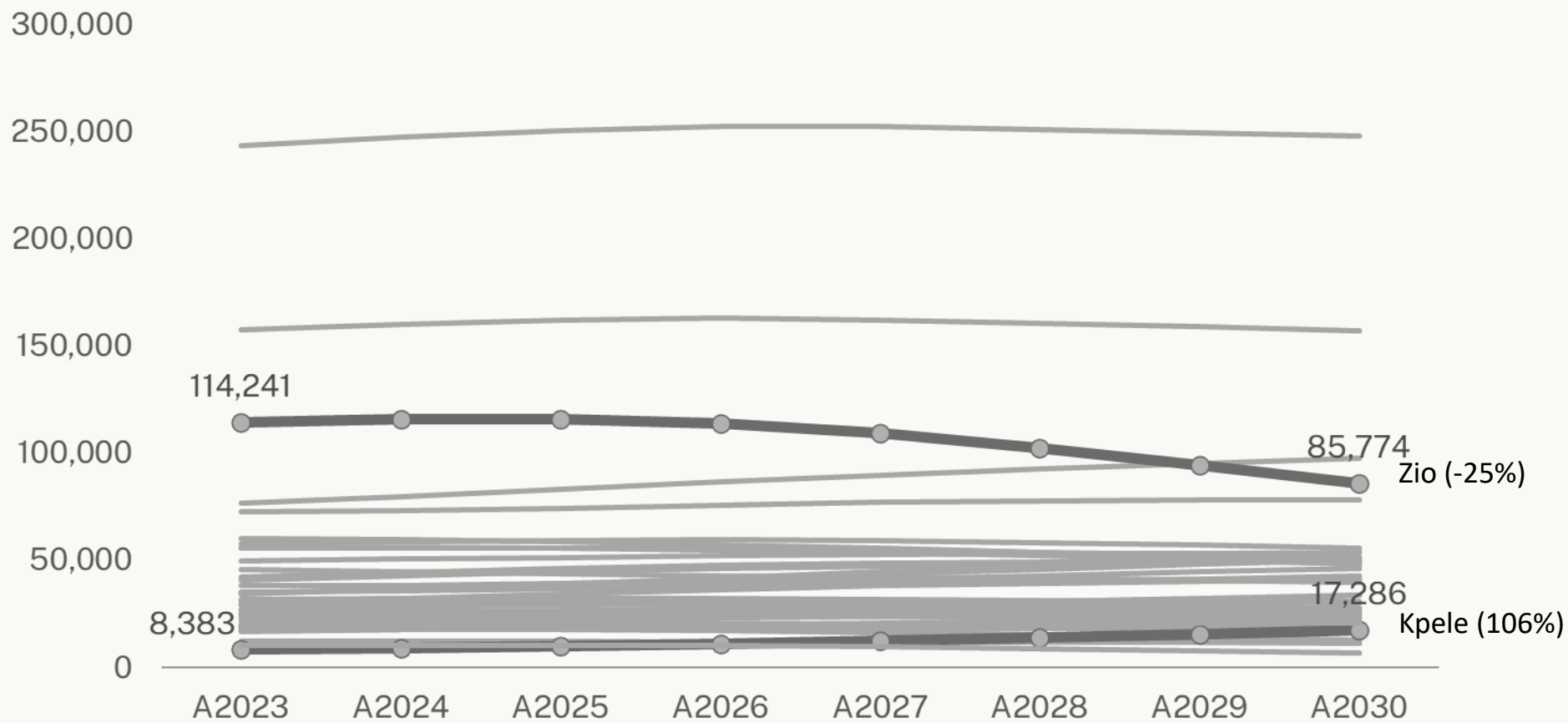
Students



Level	2023	2030	%
Pre-primary	207,436	291,880	41%
Primary	1,609,282	1,769,247	10%
Secondary I	596,137	1,069,982	79%
Secondary II	178,775	498,627	179%

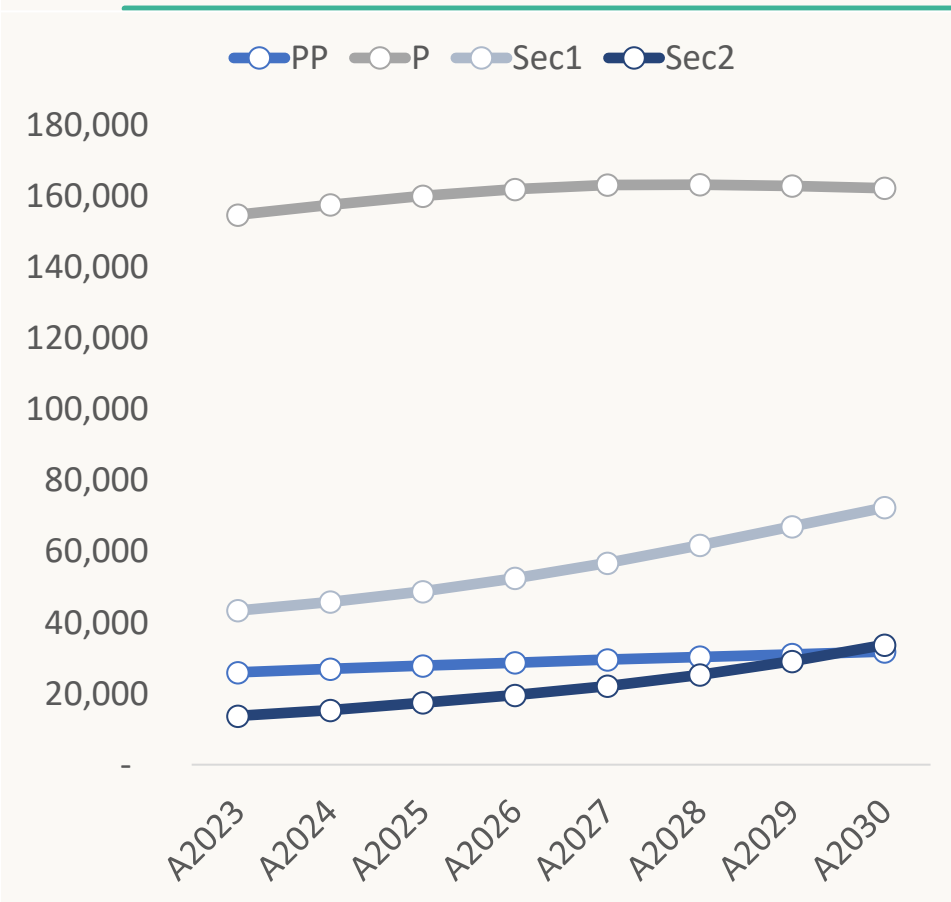
Main findings

Students (Primary by Prefecture)



Main findings

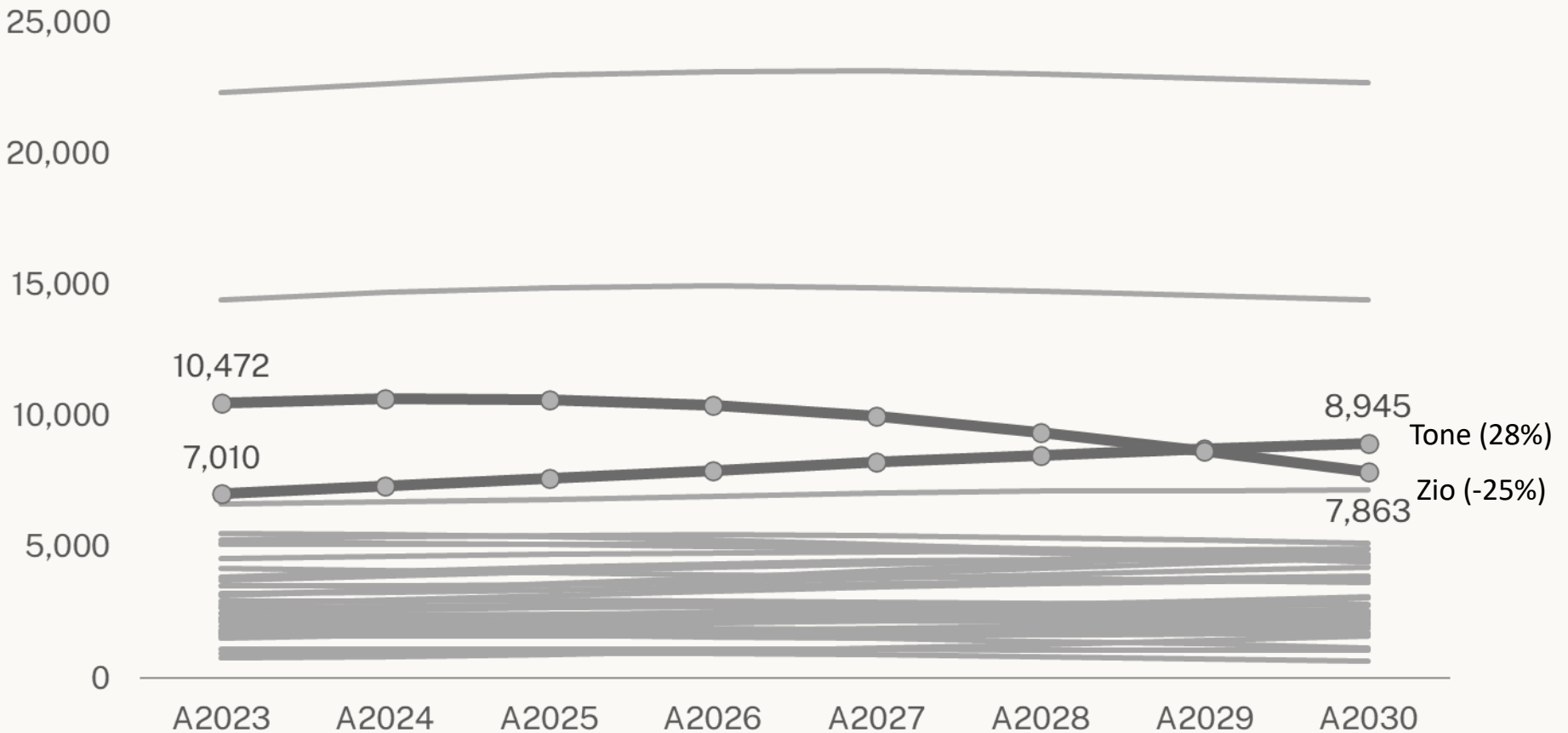
Classrooms



Level	2023	2030	%
Pre-primary	25,979	31,837	23
Primary	154,670	162,181	5
Secondary I	43,389	72,351	67
Secondary II	13,725	33,717	146

Main findings

Classrooms (Primary by Prefecture)



Integration of results

School mapping tool

The screenshot displays the Microsoft Excel interface with the following data tables and charts:

Prefecture

Agoo	Agou	Alehou	Amou	Anie	Assoli	Ave	Bar-Mono	Basar	Bnah
Elina	Enkasse	Danpen	Danjil	Doufegou	Est-Mono	Golle	Haho	Keran	Kloto
Kozah	Kpele	Kpendal	KpendalDuest	Lasc	Mo	Moyen-Mono	Ogou	Oti	OtiSud
Sotouboua	Tandouare	Tchamba	Tchaoudjo	Tone	Vo	Wava	Yoto	Zio	

Effectifs

Grade	A2020	A2021	A2022	A2023	A2024	A2025	A2026	A2027	A2028	A2029	A2030
FP	207.436	206.009	228.249	238.201	247.173	255.750	263.534	271.047	278.181	285.007	291.680
CP1	321.007	314.446	327.152	321.701	316.386	310.724	304.658	298.160	291.668	285.146	278.231
CP2	292.589	296.624	300.250	305.548	316.834	316.579	315.656	314.153	311.934	309.332	306.723
CE1	279.729	275.230	282.308	285.095	290.096	290.144	296.674	294.852	292.144	289.030	285.676
CE2	285.302	272.445	274.333	283.620	289.948	305.047	309.499	311.343	312.330	312.707	312.370
CM1	239.098	244.144	253.382	254.898	263.139	268.740	282.060	286.754	287.007	287.516	287.503
CM2	210.757	211.239	213.303	226.442	233.674	246.187	257.161	274.059	285.093	292.404	296.744
6e	300.680	178.676	163.472	190.130	205.571	217.732	234.351	259.367	273.535	291.127	305.740
5e	148.234	142.944	150.777	156.823	165.539	161.680	156.633	213.360	231.934	252.888	276.739
4e	142.080	148.412	139.514	146.840	153.579	162.787	179.023	194.058	212.456	232.239	257.136
3e	125.163	134.555	152.686	147.881	153.304	158.932	166.827	181.258	195.253	212.013	230.307
2de	62.720	59.107	62.825	78.276	89.834	94.573	105.994	119.498	138.747	153.303	163.517
Plan	56.868	59.608	59.369	64.577	79.975	88.229	100.498	114.189	130.283	152.501	177.441
Terh	59.197	63.986	60.918	60.128	63.108	75.639	83.415	53.733	105.385	119.019	137.668
Grand Total	2.591.630	2.608.425	2.689.138	2.770.162	2.870.168	2.980.752	3.095.044	3.217.038	3.345.891	3.483.292	3.629.736

Classes

Classes	A2024	A2025	A2026	A2027	A2028	A2029	A2030
FP	25.979	26.959	27.894	28.744	29.564	30.343	31.087
P	154.670	157.491	159.998	161.859	163.070	163.177	162.818
Sec1	43.989	45.845	48.762	52.464	56.777	61.748	67.029
Sec2	13.725	15.344	17.476	19.603	22.138	25.318	29.132
Grand Total	237.764	245.639	254.130	262.670	271.548	280.585	300.085

Charts:

- Top Chart:** Line chart showing enrollment trends for FP, CP1, CP2, CE1, CE2, CM1, CM2, 6e, 5e, 4e, 3e, 2de, Plan, and Terh from A2020 to A2030. The Y-axis ranges from 0 to 2,000,000.
- Bottom Chart:** Line chart showing enrollment trends for FP, P, Sec1, and Sec2 from A2024 to A2030. The Y-axis ranges from 0 to 180,000.

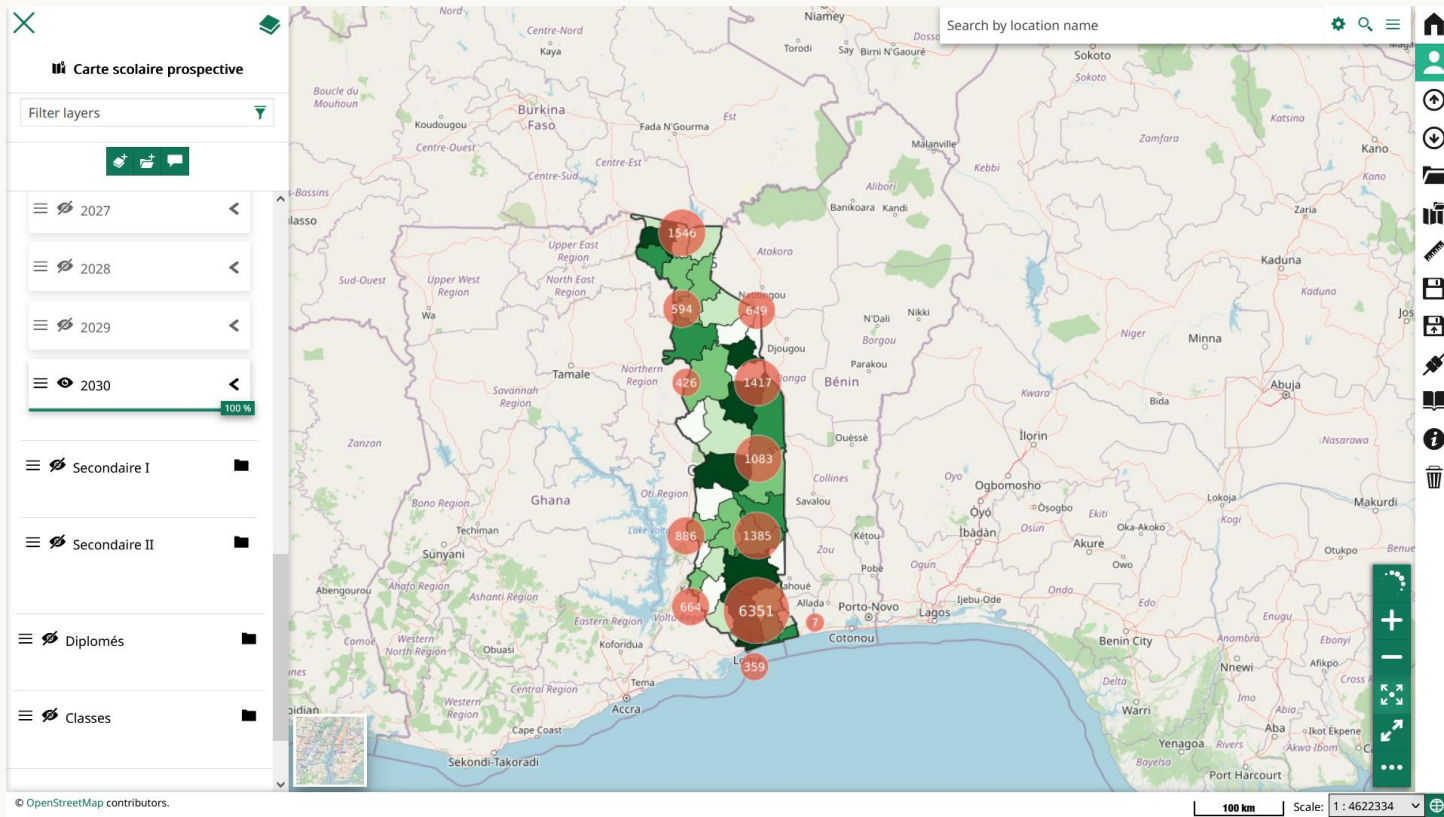
The interface also includes a navigation bar at the bottom with tabs: Description, Resultats, Variables, Cibles a remplir, Données a remplir, Population, Effectifs, Redoublants, Total, Finis, Diplomes.



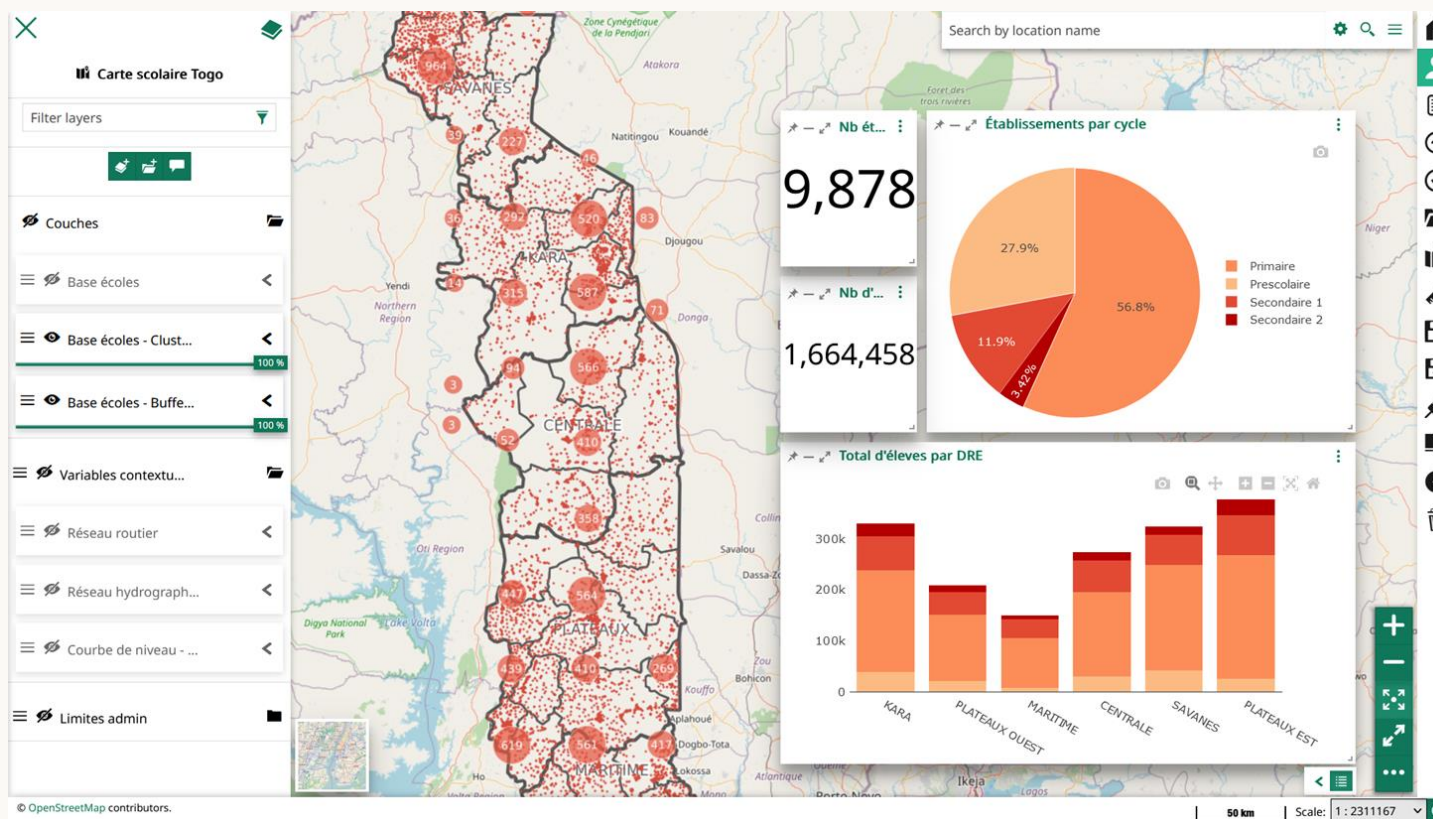
Integration of results into a visualization tool

The use of MapStore

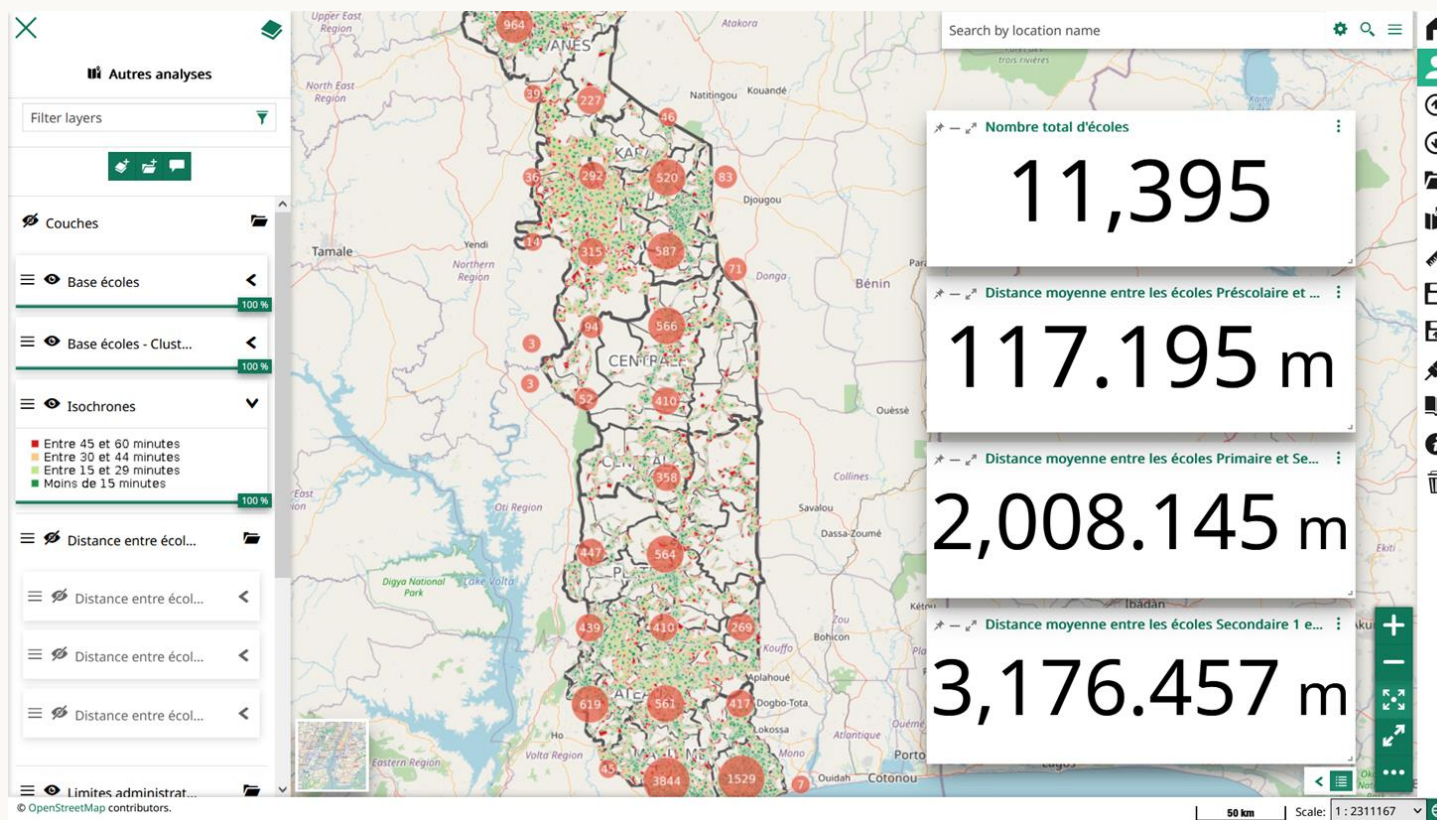
Main interface: Prospective school map



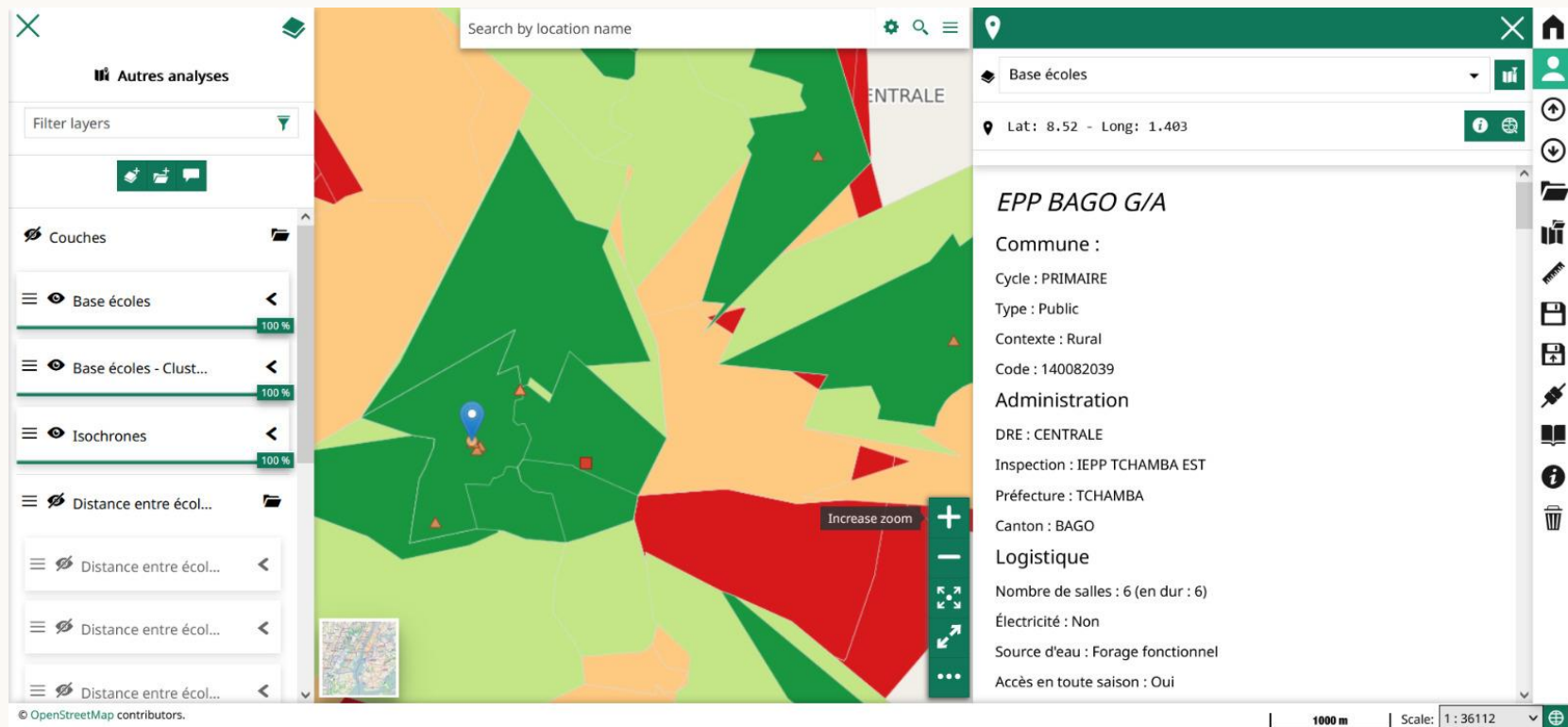
Additional analyses available: Analysis by education cycle



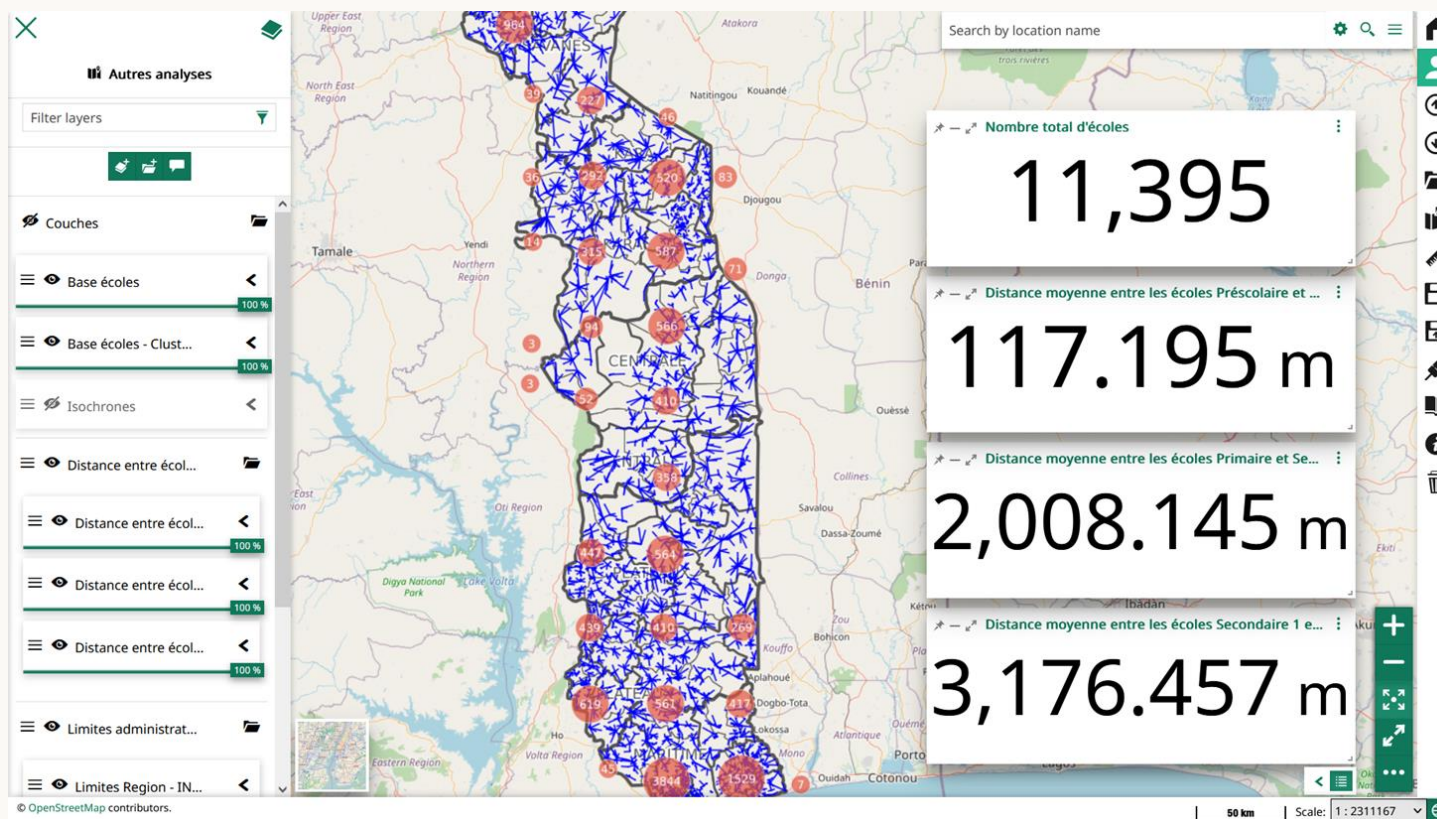
Additional analyses available: Catchment areas



Additional analyses available: Catchment areas



Additional analyses available: Distance between schools from different cycles



Current status

- ▶ Most up-to-date data, future live connection with EMIS
- ▶ Specialized trainings provided to Ministry staff for autonomy
- ▶ Creation of Admin and regular accounts for access by key decision makers at national, regional, and local level.
- ▶ System currently hosted by IIEP-UNESCO
- ▶ Technical collaboration with IT team within the Ministry of Education to host within Government servers

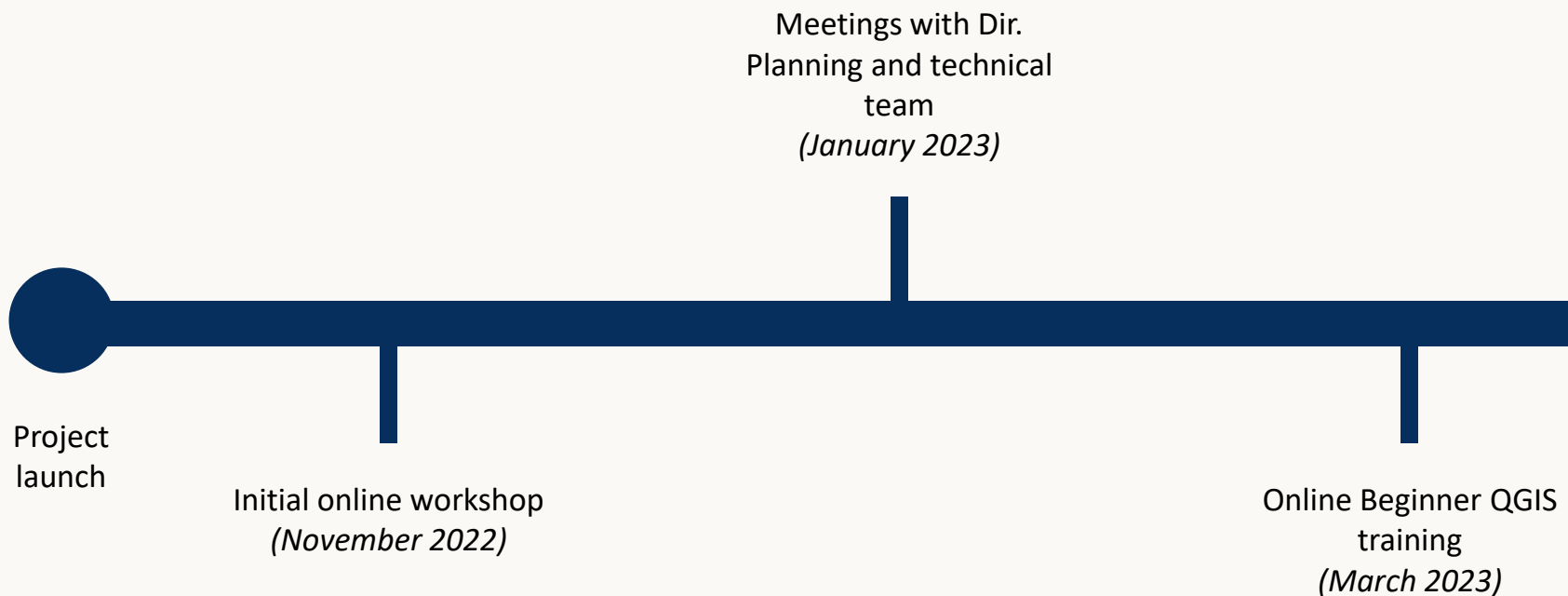




Process ownership

The school mapping exercise

Training and professional development



Training and professional development

Face-to-face
Intermediate QGIS
training
(April 2023)



Online Beginner QGIS
training
(March 2023)

Online workshop on
methodological
guidelines
(July 2023)



Training and professional development



Face-to-face Advances
QGIS training
(August 2023)



Online workshop on
methodological
guidelines
(July 2023)

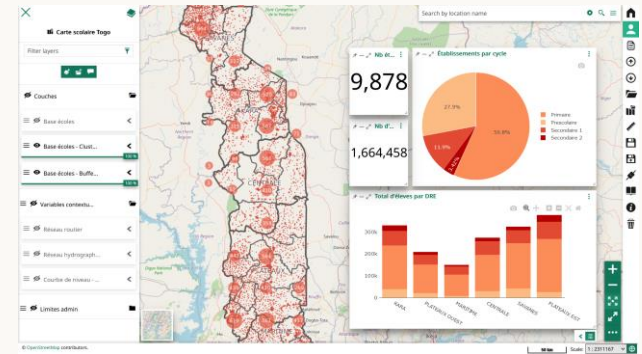
Online workshop on
the prospective school
map
(September 2023)



Training and professional development



Online workshop on
MapStore
(November 2023)



Online workshop on
the prospective school
map
(September 2023)



Contributions to research

- ▶ Challenge: How to create local school-age population estimates for small areas?
- ▶ Solution: Spatialized population projections using WorldPop data and adjusting to national estimates
 - Free, open-source code
 - Projections at any level over 100m x 100m (based on mobility trends stability)
 - Uses open-source software
 - Applicable to any other country

<https://at.iiep.unesco.org/SSAPTogo>





Conclusions

Using geospatial data for
decision-making in Togo

Using data for decision-making in Togo

- ▶ Circumscribed within a bigger push for data-informed policy making (PRISE)
- ▶ Prospective micro-planning, focusing on local needs
- ▶ Strong push for capacity development and ownership
- ▶ Reaching policy-makers at national, regional, and local level
- ▶ Using free, open-source software





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