DIDIDI

Digital Dashboards in Diagnostic Innovations

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D7.1. Define internal KPIs

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Background of the DIDIDI project

The DIDIDI project (Digital Dashboards in Diagnostic Innovations) addresses the growing impact of climate change on the transmission dynamics of poverty-related infectious diseases, such as soil-transmitted helminth infections and schistosomiasis, in sub-Saharan Africa. These diseases disproportionately affect underserved rural populations, where limited access to diagnostics, fragmented health data systems, and insufficient integration of environmental information hinder effective prevention and care.

To tackle these challenges, DIDIDI brings together a multidisciplinary consortium to develop and deploy innovative, low-cost diagnostic tools combined with advanced digital dashboards. These solutions aim to enable real-time data collection, integration, and analysis across community, clinical, and environmental levels. By ensuring interoperability with national health and environmental systems, the project supports evidence-based decision-making and strengthens public health surveillance.

Ultimately, DIDIDI seeks to improve disease detection and management, enhance the resilience of health systems to climate-related pressures, and contribute to the development of data-driven policies that reduce the socio-economic burden of infectious diseases in sub-Saharan Africa.

Executive summary

This deliverable establishes the internal Key Performance Indicator (KPI) framework for the DIDIDI project, providing a structured and measurable basis for monitoring progress across all Work Packages from the outset of the action. Developed during the first project quarter, it defines a comprehensive set of KPIs covering scientific and technical development, ethics and regulatory compliance, budget and resource management, timeline adherence, and expected impact.

For each KPI, the document specifies clear targets, units of measurement, baseline values where applicable, as well as the corresponding data sources, collection frequency, and responsible partners. This ensures consistency, traceability, and accountability in performance monitoring throughout the project lifecycle.

In addition, the framework introduces escalation mechanisms to address deviations from planned objectives, enabling timely corrective actions by the Scientific Lead and oversight by the General Assembly. Particular attention is given to cross-cutting aspects such as ethics, data governance, and stakeholder engagement, reflecting the project's complexity and its deployment in real-world public health settings.

Overall, this KPI framework constitutes a central management and decision-support tool, supporting continuous performance assessment, risk mitigation, and alignment with the project's scientific, operational, and societal objectives.

Link with other project activities

The KPI framework defined in this deliverable is intrinsically linked to all Work Packages and serves as a transversal monitoring tool supporting the implementation of the entire DIDIDI action. Each KPI has been designed to reflect the objectives, tasks, and expected outputs of the respective Work Packages, ensuring direct alignment with the Description of Action (DoA).

In particular, the KPIs related to scientific and technical progress are closely connected to the development, validation, and deployment activities of diagnostic tools and digital dashboards. Ethics and data governance KPIs are aligned with the project's regulatory and ethical requirements, supporting compliance throughout clinical, community, and digital activities. Budgetary and timeline indicators directly support project management tasks, enabling continuous tracking of resource use and adherence to planning.

Furthermore, the KPI framework feeds into the project's reporting and decision-making processes, informing periodic reports, internal reviews, and General Assembly discussions. It also complements risk management activities by providing early warning signals in case of deviations, thereby facilitating timely corrective actions.

Overall, this deliverable acts as a central backbone for performance monitoring, ensuring coherence, coordination, and accountability across all project activities.

1. Introduction

This deliverable presents the internal Key Performance Indicator (KPI) framework for the DIDIDI project, designed to support systematic monitoring and management of the action from its early stages. It provides a comprehensive and structured set of KPIs covering all critical dimensions of project performance, including scientific and technical progress, budget and resource management, ethics and regulatory compliance, timeline adherence, and expected impact.

The KPIs have been defined in alignment with the project's objectives and Work Package (WP) structure, ensuring direct traceability between planned activities and measurable outcomes. For each KPI, the document specifies a clear description, the associated Work Package, the unit of measurement, baseline values where applicable, and target levels to be achieved. In addition, it details the data sources used for monitoring, the frequency of data collection, and the responsible partner or role in charge of reporting and follow-up.

This level of detail ensures consistency, transparency, and accountability across the consortium, while enabling reliable and comparable performance tracking over time. The framework also supports evidence-based decision-making by providing the Scientific Lead and the General Assembly with regular, structured insights into project progress.

Beyond performance tracking, the KPI system contributes to proactive project management by facilitating the early identification of deviations from planned objectives. When relevant, escalation mechanisms are associated with specific indicators to ensure that corrective actions can be implemented in a timely and coordinated manner.

Overall, this KPI framework constitutes a central operational tool for the DIDIDI project, supporting continuous monitoring, risk mitigation, and alignment with the project's scientific, operational, and societal ambitions.

2. Scientific KPIs

Description	WP	Target	Data sources	Collection frequency	Responsible owner
Scientific publications	8	12 in Q1 scientific journals	dissemination log	6-monthly, at each project meeting	InnoT
Number of conferences attended by researchers	8	≥15	Dissemination log	6-monthly, at each project meeting	InnoT
TRL progression	1,2,3	+2 levels	Technical deliverables	6-monthly, at each project meeting	UGLA
Microscope costs	1	<1USD per test, <150USD (ex. Phone)	Bill of Materials	6-monthly, at each project meeting	DwB
Microscope performance	1	WHO TPP	Experimental data	6-monthly, at each project meeting	UGLA
Dashboard performance	2	WHO TPP, reproducibility	Scenario testing of dashboards	6-monthly, at each project meeting	HISP UGANDA
eCO_2 reduction	1, 2	Reduction by >75%	Sustainability audit	Yearly at project meeting	MEF-KE
Correlation of disease predictions with records	3	Kappa >0.95	HISP and KHIS data logs	Quaterly from month 36	HISP UGANDA

3. Budget-related KPIs

Description	WP	Target	Data sources	Collection frequency	Responsible owner
Budget deviation: Difference between planned and actual spending	1	≤5% deviation	Financial reports	Every six months internally, for periodic reports with the European Commission	UGLA

4. Ethics-related KPIs

Description	WP	Target	Data sources	Collection frequency	Responsible owner
Ethics approvals obtained	1	100%	Ethics approvals	Once per study	UGLA
Number of deviations from approved protocols	1	0% (unless justified)	Ethics deliverables	On demand	UGLA
% participants with properly documented consent	1	≥98%	Study reports	Monthly once study running	Scientific Lead
% participants correctly understanding key elements (tested)	1	≥85%	Study reports	Monthly once study running	Scientific Lead
Participants withdrawing consent	1	Monitored (no threshold)	Study reports	Monthly once study running	Scientific Lead
Data anonymization rate	1, 2, 3	100%	Study reports	Monthly once study running	Scientific Lead
Data breaches	all	0	WP lead reports	Monthly	Scientific Lead
Access control compliance	all	100%	WP lead reports	Monthly	Scientific Lead
Data storage compliance	all	100%	WP lead reports	monthly	Scientific Lead

5. Impact-related KPIs

Description	WP	Target	Data sources	Collection frequency	Responsible owner
Number of healthcare workers trained	1, 2, 3	≥300	Internal reports	Every six months	DwB
Number of training sessions delivered	1, 2, 3	≥20	Internal reports	Every six months	DwB
Training satisfaction rate	1, 2, 3	≥4/5	Internal reports	At each training session	DwB
PhD/early researchers supported	1, 2, 3	≥15	Internal reports	Every six months	LEIDEN
Stakeholders engaged	1, 4, 8	To be defined across categories	Internal reports	Every quarter	STRATHMORE
Website traffic	8	5,000 at project end	Website analytics tool	Every month (internally) + during periodic reporting	InnoT
Social media reach	8	10,000 at project end	Each social medium analytic tool	Every month (internally) + during periodic reporting	Stetoo
Business/exploitation plans	8	One plan produced	Internal reports	Before project completion	InnoT