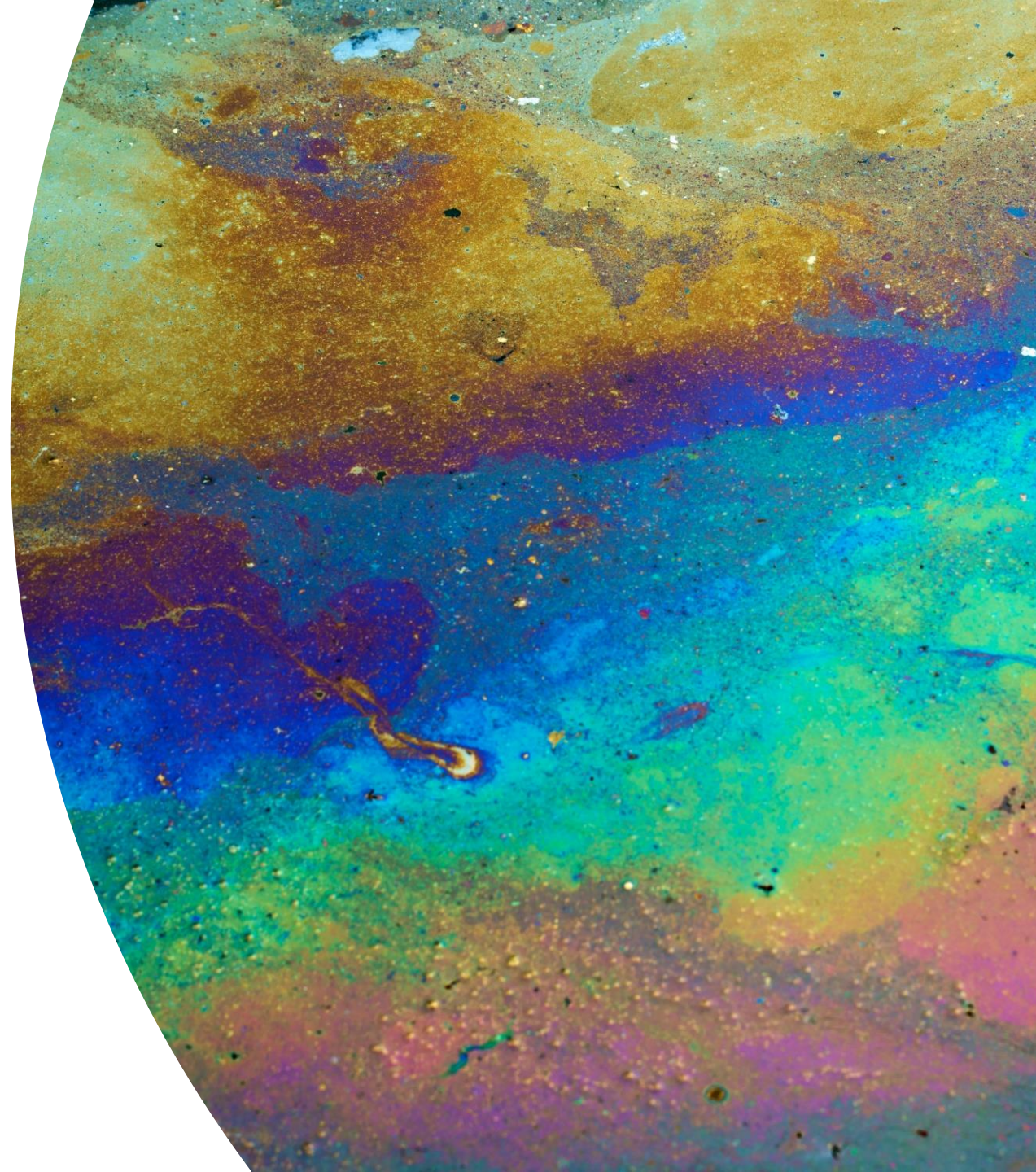


**A data-driven approach
to optimise impact**

vliruos

sharing minds, changing lives



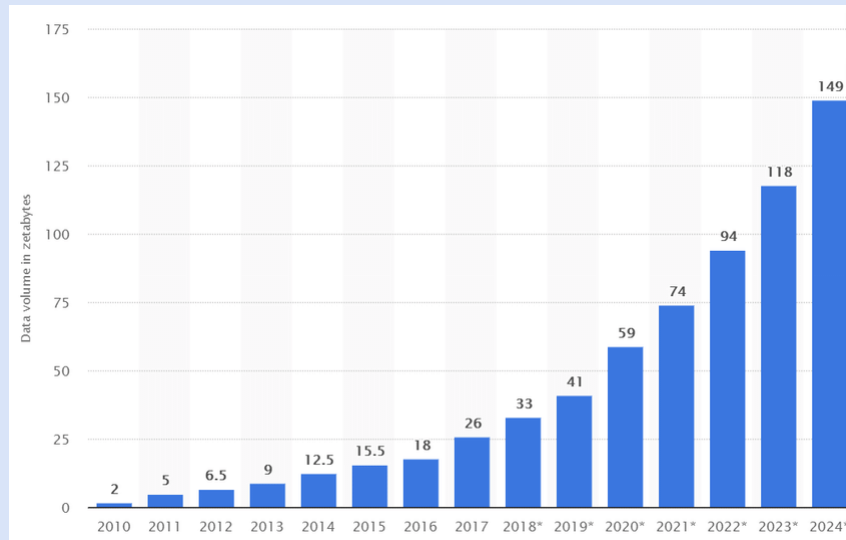


**Why data-driven
now?**

Data is the new oil

Expectations 2028

- ✓ Not a hype
- ✓ Data is everywhere



Why Data-Driven Working Matters: Two Real-World Challenges



Declining graduation rates

Project financials scattered



Manual attendance sheets

Months of manual consolidation



Simple digital attendance record
→ analyze for risk-markers.

Centralized digital data feed
→ real-time aggregation from Day 1

Early alerts + targeted follow-up
→ 23% boost in graduation rate

Instant, accurate cash-flow dashboard
→ faster audit reporting, higher trust & accountability.

Data is the New Oil



Raw Data

Collect from multiple sources



Refined Data

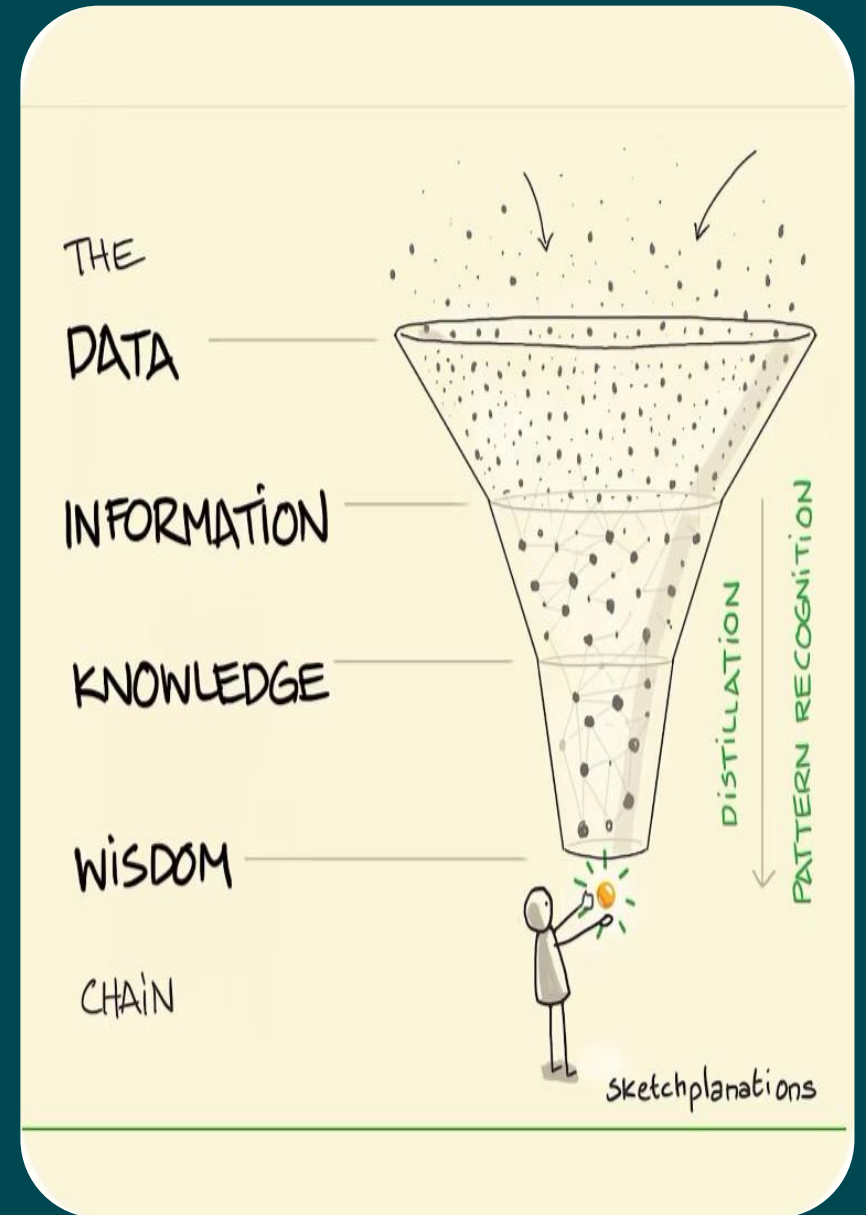
Clean, organize, and structure



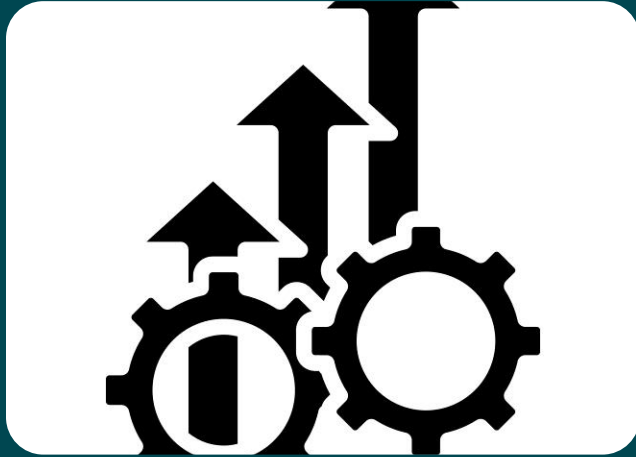
Impact

Drive decisions and improvements

Like oil, data requires refinement to become valuable.
The process transforms raw information into actionable insights.



VLIRUOS Digital Framework



Operational excellence

Enhance capabilities through automation



Insight creation

Generate knowledge by collecting, connecting, and unlocking information



Enhanced experience

Offer smart products and services by connecting ecosystem stakeholders

DATA IN THE DRIVING SEAT

THE CONNECTED ECOSYSTEM



**WHAT DOES
DATA-DRIVEN
MEAN?**

Paradigm Shift: Data-First

- Then: Build apps around processes, then bolt data on
 - Now: Identify the data you need first — for insights, automation & new experiences
 - Collect & store data accessibly (e.g. a central warehouse, not isolated files)
 - Then design processes and applications around that data
- streamlined workflows, higher data quality & “one source of truth”





Operational excellence

RPA & Workflow Automation

- Reports in minutes instead of days
- Routine administrative tasks (e.g. notification emails) handled by automated workflows

Real-Time Monitoring

- Interactive dashboards track key metrics as they happen
- Potential issues are flagged early—before they escalate



Insight Creation

Open Data Ethos

- Trust
- Accountability
- Data Democracy

Efficiency Gains

- Less time spent searching for information
- Instant access to the right data



Stakeholder Empowerment

Self-service insights

- Users pull the metrics they need, when they need

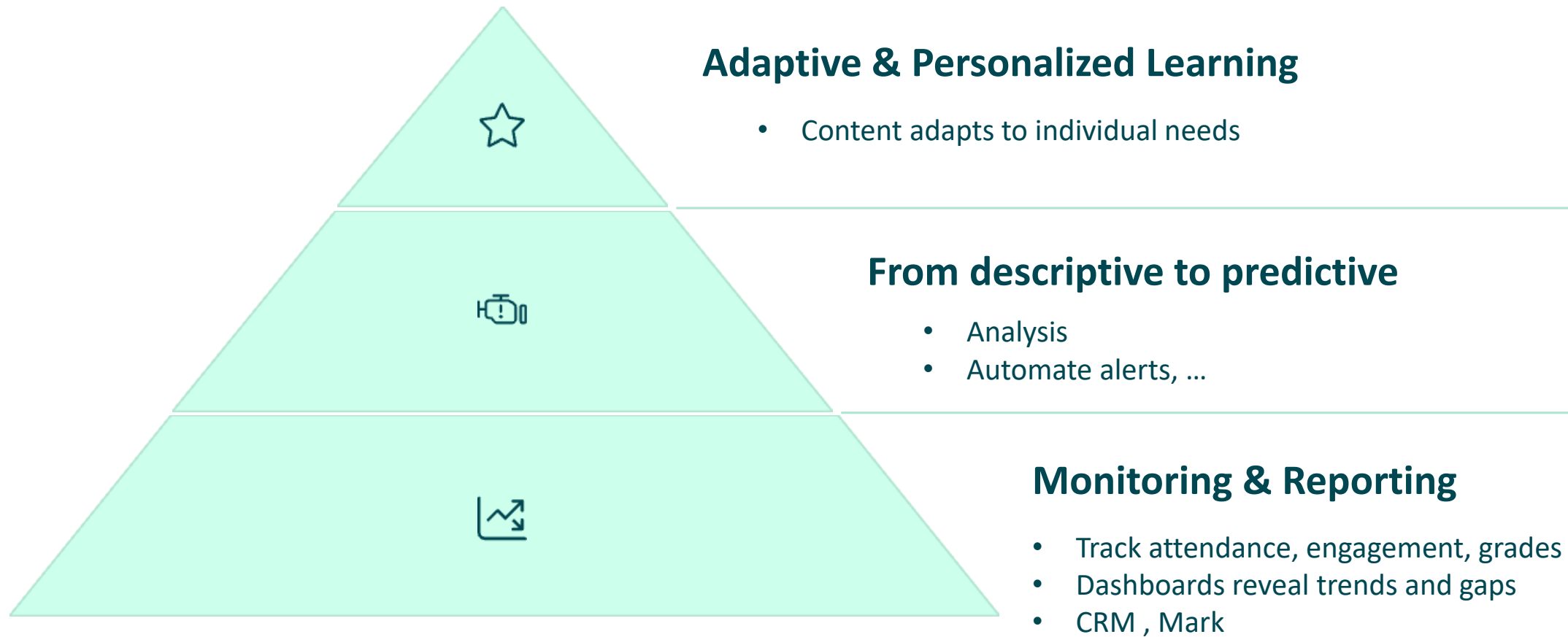
Seamless integration

- Self-publication
- Live connection to our grant management tool

Future

- Pictures, movies, Indicators and impact,
- AI-enabled Q&A:

Data-driven approaches in EdTech



Some data driven applications



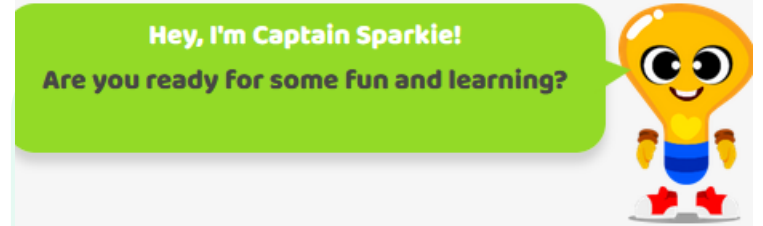
Eneza Education & M-Shule

- SMS-based adaptive quizzes reach 10 M+ learners in rural areas
- Personalized practice in local languages
- Outcomes: +22.7 % average score improvement vs. non-users



Rori AI Tutor on WhatsApp

- Chatbot delivers math lessons and practice on demand
- Piloted with secondary students using basic smartphones
- Outcomes: +1 year of learning in math (effect size ~ 0.36) at $\sim \$5/\text{student}$



Mindspark Adaptive Learning

- Web-based platform tailoring exercistudent's lses to each evel
- Deployed in low-resource government schools
- Outcomes: 2–3× improvement in learning gains over traditional methods



Challenges?

Context Matters – Ethics and Equity

Data Sovereignty

Who owns and controls your data?



AI Bias

Western vs. local epistemologies?
More than language, misinterpretation
cultural references

Do No Harm & Data Gaps

Anticipate unintended consequences
of data systems.
Do not forget anyone.



Privacy

Strong protections for sensitive
student information.



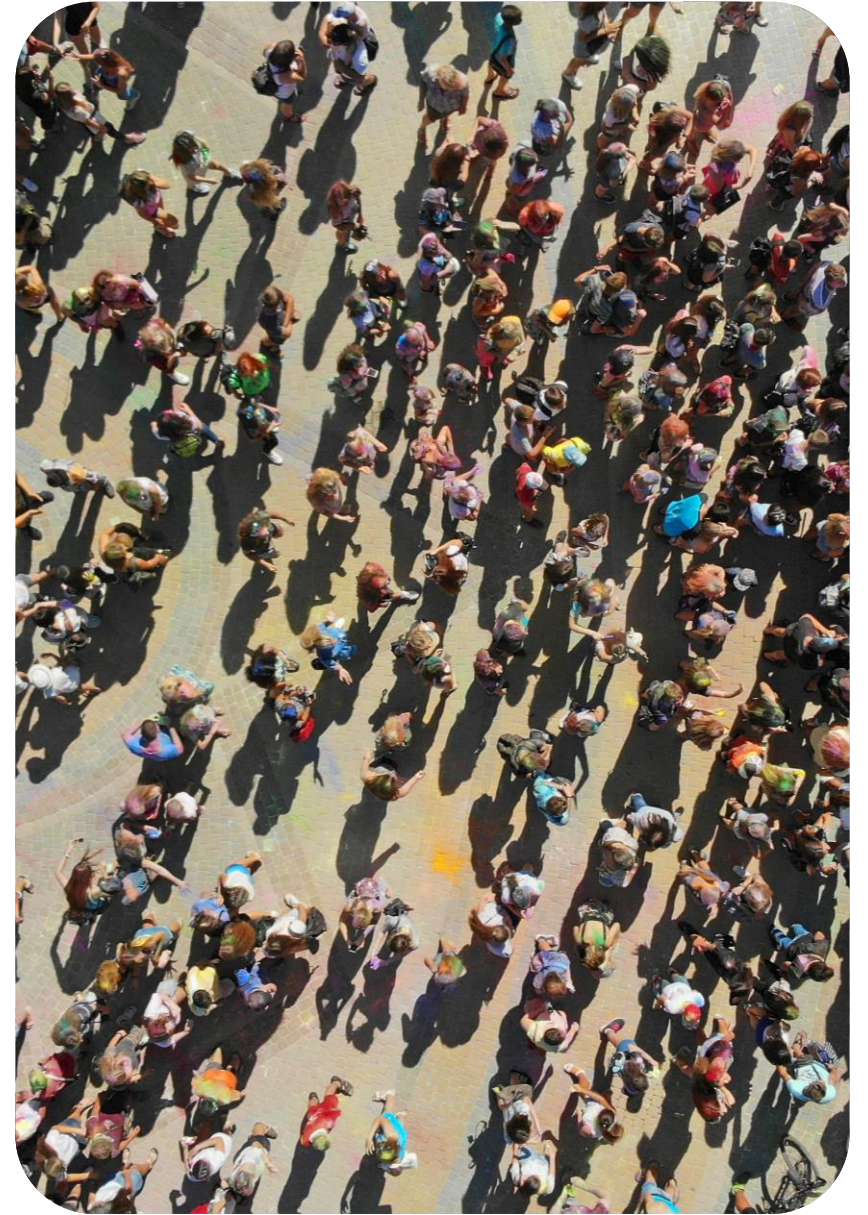
Design for Dignity

Inclusive, Context-Aware Design

- ✓ Co-create with users, not for them
- ✓ Respect and adapt to local contexts
- ✓ Keep it simple
- ✓ Offline and Low-Tech Options
- ✓ Combine data with stories

Key Messages

- Turn data into empowerment, not exhaust
- Everyone visible & valued
- Data-driven is human-centered
- Build local value, avoid extractive data
- Ethics & dignity at the core



Next Steps: Dream Big, Start Small

- Map concrete use cases and pilot
- Align with strategy
- Invest to Understand the real question
- Agile, short and fast feedback loops

Challenge!

- Data quality and governance
- Underestimate data literacy => training!



Next Up

Educaid

AI: A Blessing or Curse for Education

VLIRUOS

Accelerate Uptake

Accelerate Open Data & Open
Science

Community talk on Pollution
Mitigation (Kenia)

THANK YOU!

