



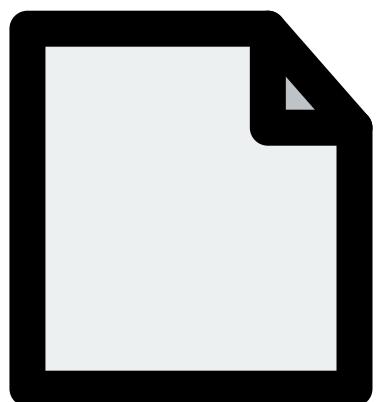
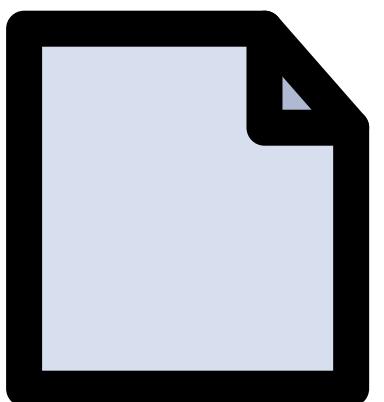
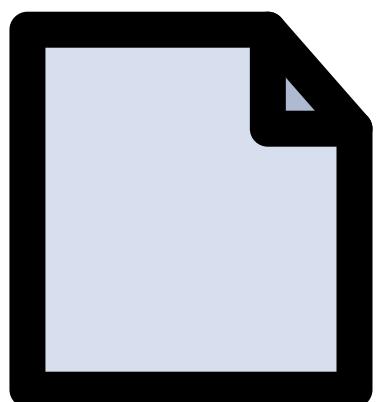
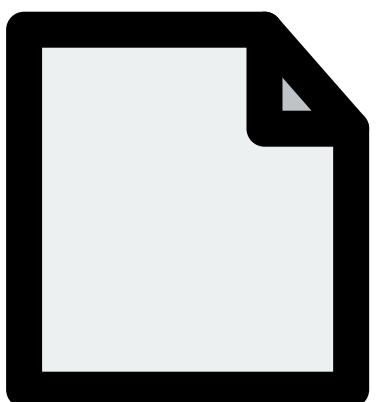
Making Data Work for Educators

Sharing Baguio's Experience

Soraya T. Faculo PhD, CESO V

Department of Education - Schools Division of Baguio

**Teacher Zeporah,
an Araling Panlipunan
Teacher of Pines National
High School in Baguio City**



Tala - Aral: A Dashboard for Monitoring Learner Progress and Individual Learning Monitoring Plan (ILMP) Generation Tool

Page: 15

Address: SANITARY CAMP, NORTH BAGUIO CITY BENGUET

Scores Performance Feedback History ILMP

Manage Student Scores

Empowerment Technologies

No topics yet under this subject.

PAG-AARAL NG KASAYSIAN AT LIPUNANG PILIPINO

Topic: QUARTER 1.I. Mga Palatandaan at Katangian ng Kamalayang Pangkasaysayan

Activity	Max Score	Student Score
Gawain Bilang 1: "kaSAYSAyan"	100	95
Gawain Bilang 2: "MAPPING THE MIND"	50	45
Gawain Bilang 3: "QUOTEABLE QUOTES"	10	10
Gawain Bilang 4: "Panokatang Gawain"	30	25

Teacher Zeporah's Dashboard contained data for:

- 239 learners

- Learner Grades in the Subjects she handles

- Mastery Level of each student in every competency required.

- Student's Self Assessment, Feedback, and Suggestions

Teacher Zeporah's Dashboard generated:

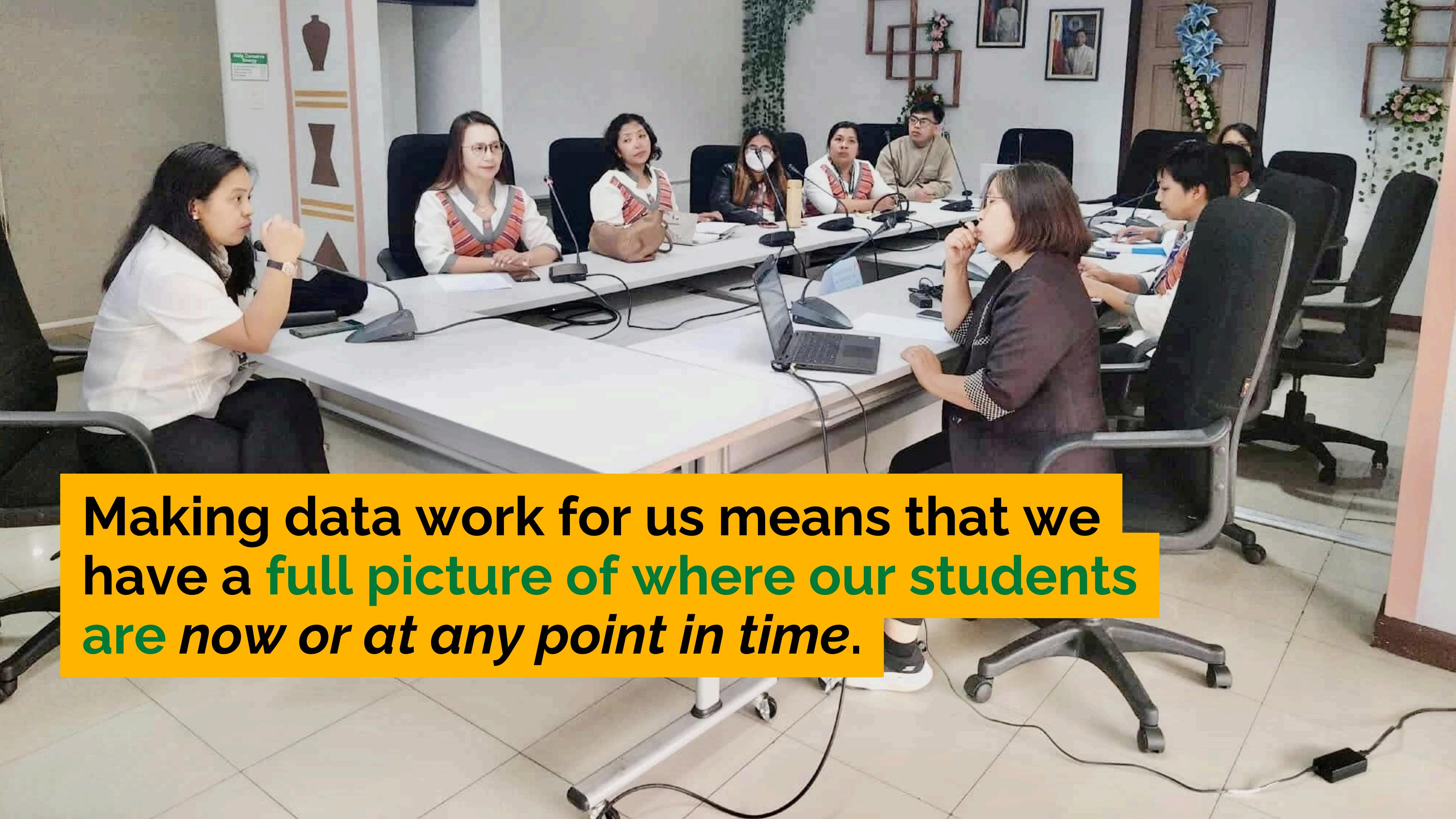
- Individual Learning Monitoring Plans



MAKING DATA WORK FOR ME



ME WORKING FOR DATA



Making data work for us means that we have a **full picture of where our students are now or at any point in time.**



**How is the performance of our SDO
and the schools at any given time?**



67 public schools
85 private schools

152 schools

59,419 from the Public Schools
15,582 from the Private Schools

75,001 Baguio Learners

SDO Baguio





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SENATE OF THE PHILIPPINES

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Press Release
December 13, 2023

Gatchalian: PH should learn from Baguio, CAR schools on boosting English proficiency

Schools across the country should learn the best practices of Baguio City and the Cordillera Administrative Region (CAR) when it comes to boosting learners' English proficiency, Senator Win Gatchalian said.

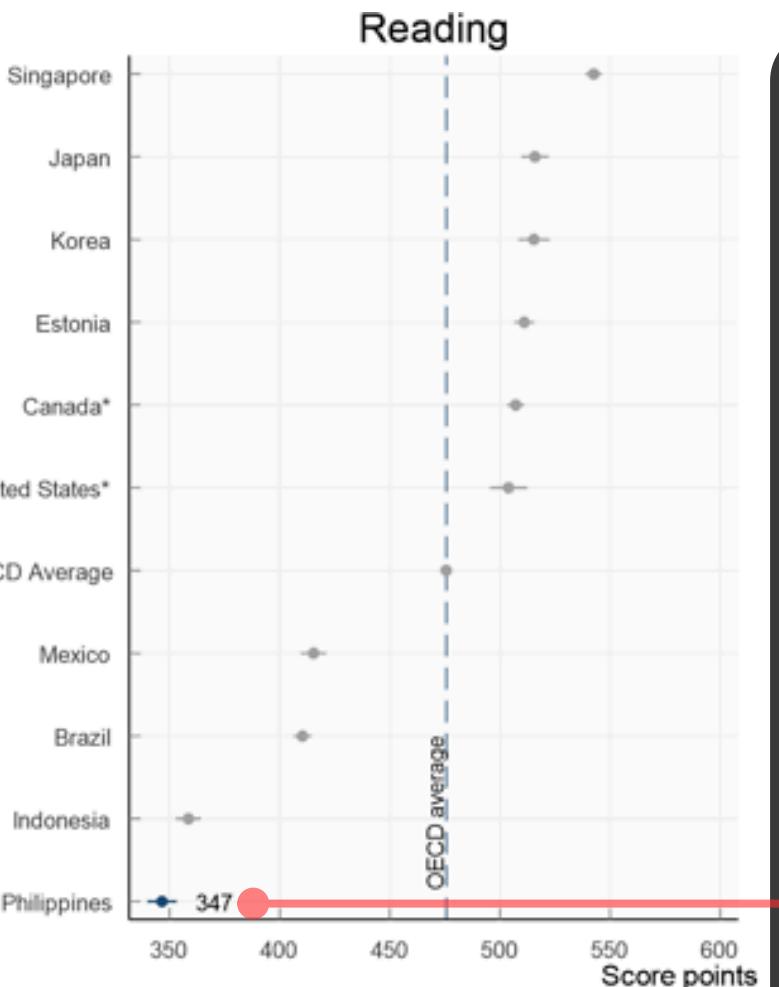
According to the 2023 English Proficiency Index by international education company EF Education First, Baguio City emerged as the top English-speaking and -listening city in the Philippines, garnering a score of 619. CAR, where Baguio is located, garnered a score of 616 and topped the English-speaking and -listening regions in the Philippines.

"Binabati ko ang ating mga mag-aaral at mga guro sa Baguio at CAR dahil sa naging magandang performance nila sa nagdaang international assessments. Marami tayong pwedeng matutunan sa kanila upang iangat ang performance ng mga mag-aaral sa iba't bang panig ng bansa pagdating sa English proficiency, pati na rin sa pagbabasa," said Gatchalian, Chairperson of the Senate Committee on Basic Education.

CAR is also among the top-performing regions in the 2022 round of the Programme for International Student Assessment (PISA). Alongside the National Capital Region (NCR) and Region 4A, CAR has one of the largest shares of students who have achieved the minimum proficiency in reading. The 2022 PISA results reveal that two out of five students in CAR achieved at least the minimum proficiency in reading.

Gatchalian emphasized that international assessments such as the 2023 English Proficiency Index and the latest round of PISA present opportunities to learn the best practices from top-performing regions. The lawmaker added that the best practices can be in the areas of collaboration between local government units and DepEd regions and divisions.

Moving forward, Gatchalian said that data from PISA will help the Second Congressional Commission on Education (EDCOM II) and the Senate Committee on Basic Education in proposing reforms to improve learners' performance and reverse the country's education crisis.



In 2018 and 2022, Baguio is a **Top Performing Division** in the PISA for the Philippines.

Baguio's score is **below average** in terms of OECD Average.



LEARNING OUTCOMES DASHBOARD



CASE 1: Learning Outcomes as a function of **Learning Assessments**

SDO Baguio's Learning Outcomes Dashboard contains data for:

- 59,353 public school learners

- 152 Baguio schools
2,443 public school teachers

- Student Quarterly Performance

- External Assessment Results

Tracking Performance Gaps and Learning Recovery



School Quarterly Performance Gaps Analysis

SECONDARY LEVEL

Data-driven intervention tracking aligned with DepEd Philippines continuous improvement framework

School Year

2024-2025

Quarter

All Quarters

District

All Districts

School

All Schools

▼ Apply

↻ Reset



TOTAL GAPS IDENTIFIED

221

ⓘ 34 are critical



SCHOOLS BELOW 85% TARGET

3

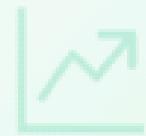
ⓘ Click to view • Out of 16 total schools



AVG GENDER EQUITY GAP

4.82%

ⓘ DepEd Gender-Responsive Education



LEARNING RECOVERY RATE

+4.43%

ⓘ Average Q1 → Q4 improvement

School Quarterly Performance Gaps Analysis

SECONDARY LEVEL

Data-driven intervention tracking aligned with DepEd Philippines continuous improvement framework

School Year

Quarter

District

School

▼ Apply

2024-2025

All Quarters

All Districts

All Schools

Reset

Key Performance Indicators we have set as an SDO



TOTAL GAPS IDENTIFIED

221

⚠ 34 are critical



SCHOOLS BELOW 85% TARGET

3

👉 Click to view • Out of 16 total schools



AVG GENDER EQUITY GAP

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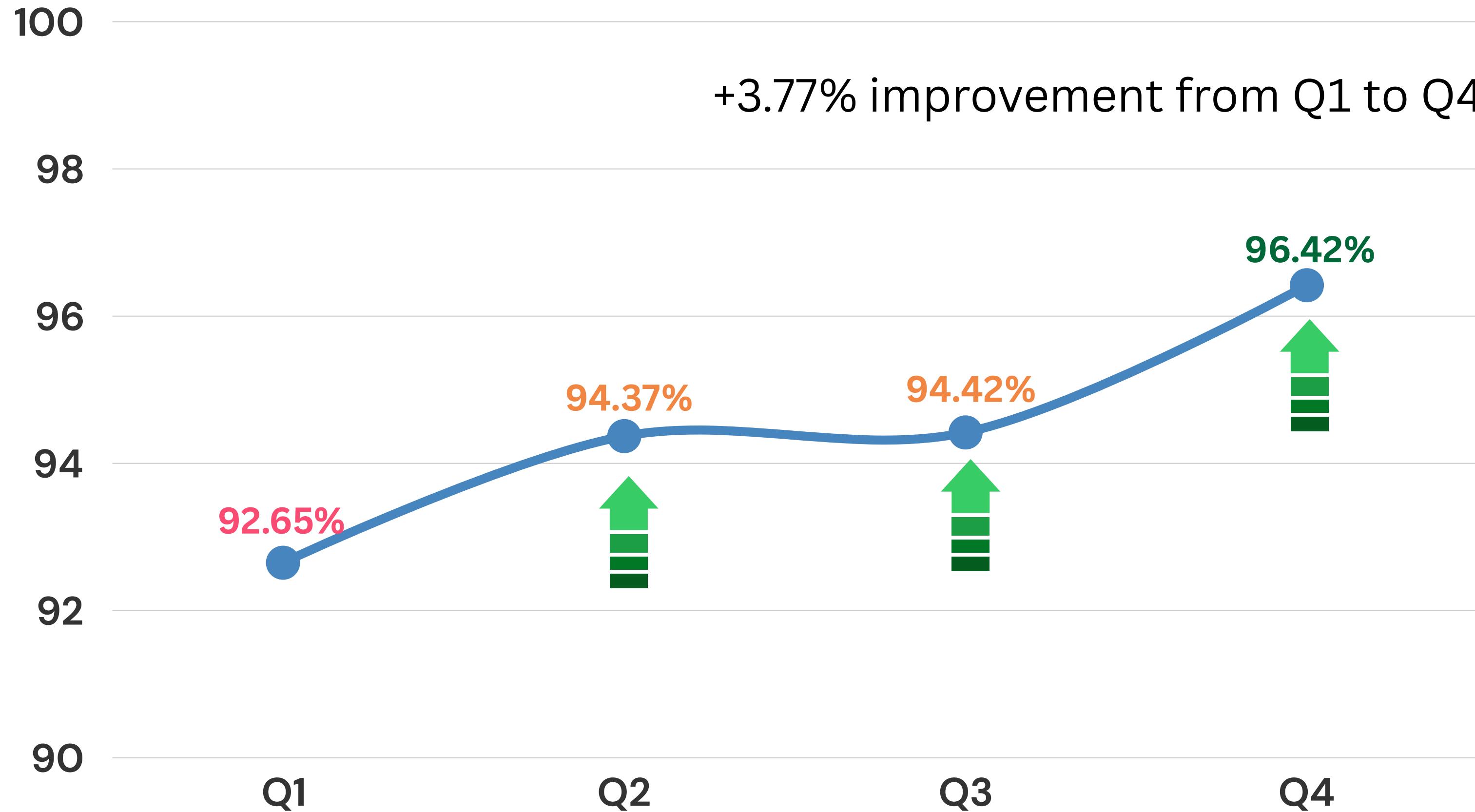
LEARNING RECOVERY RATE

+4.43%

ⓘ Average Q1 → Q4 improvement

KPI on Gender Equity

Division Performance Trend: Quarterly Pass Rates



Focusing on Schools That Need Support

Pinsao NHS

Gap Analysis Summary

 Below 85% in: Q2, Q3

 Duration: 2 quarters

Quarter	Pass Rate
Q2	83.76%
Q3	82.86%

Guisad Valley NHS

Gap Analysis Summary

 Below 85% in: Q3

 Duration: 1 quarter

Quarter	Pass Rate
Q3	81.95%





CASE 2: Learning Outcomes as a function of **Learning Environment**

SDO Baguio's Infrastructure and Facilities Dashboard contains data for:

67 public schools

565 school buildings

2199 classrooms

Critical
Issues to be
addressed

Utilizing Data for Effective Learning Interventions

SDO Baguio City

- Dashboard
- Infrastructure & Facilities
 - Schools
 - Buildings
 - Classrooms
- Projects
- Site Titling
- ICT / Computerization
 - Overview
 - Laptops for Teachers
 - Internet Infrastructure
- Computer Labs

Project FAITH Dashboard
Integrated datasets for education and community

Baguio City High School

ID: 305269 • Secondary

Buildings
22
0 need attention

Classrooms
231
15 need attention

Critical Issues
15
Buildings & Classrooms

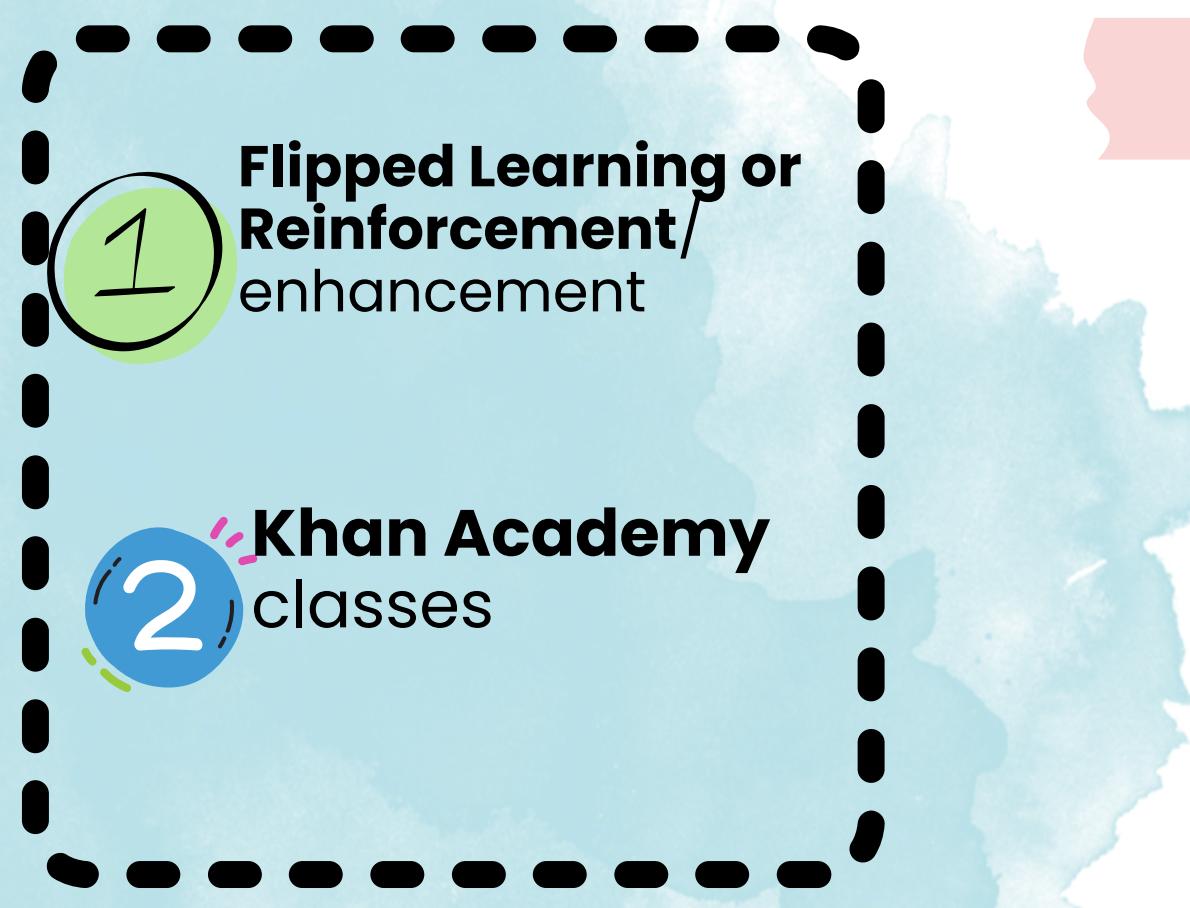
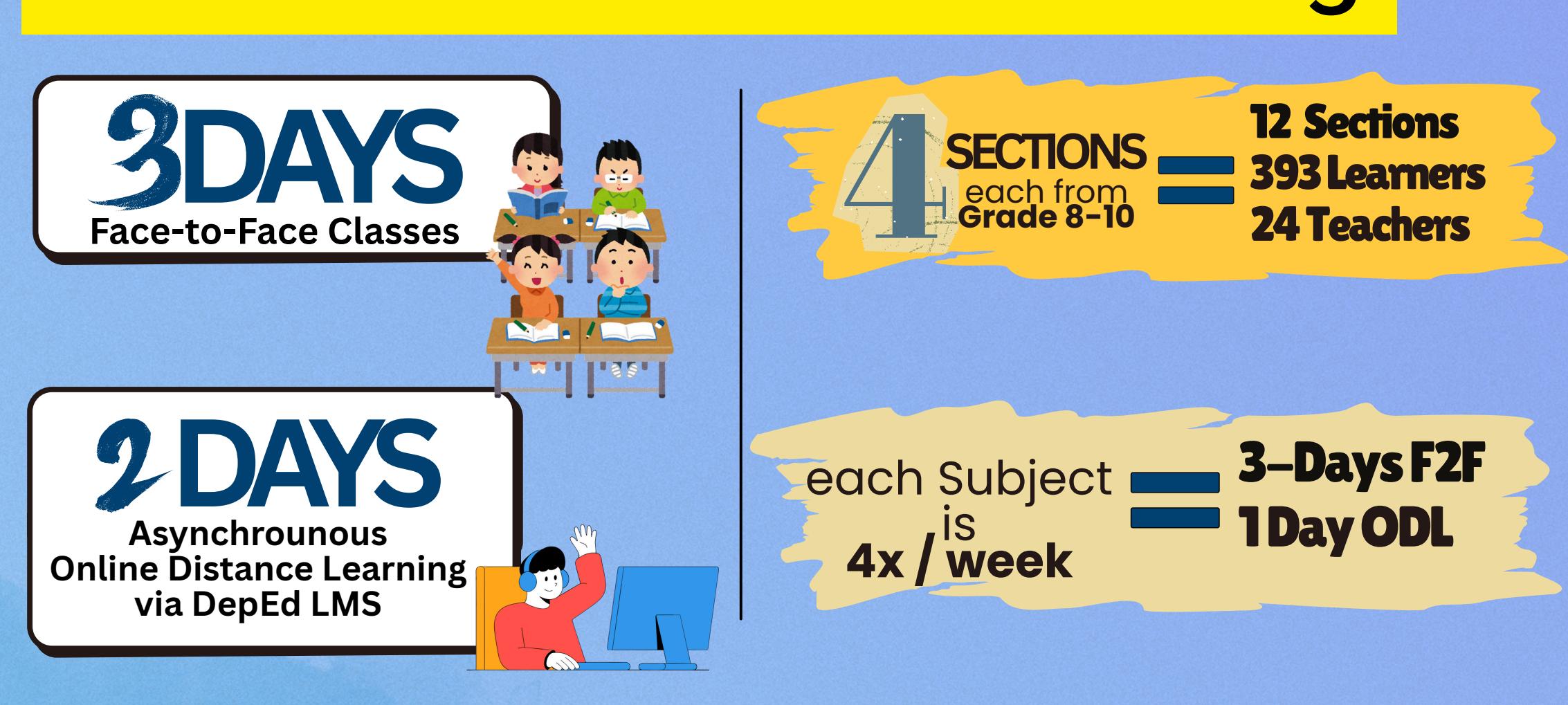
Overall Status
Critical



Classroom Conditions

Condition	Count	%
Good Condition	148	64.1%
Needs Minor Repair	65	28.1%
For Condemnation/For Demolition	15	6.5%
Condemned / For Demolition	3	1.3%

Intervention: Blended Learning



DepEd LMS for ODL

- activities can be downloaded via the Moodle app
- accessed by learners even without data or internet connection at home
- activities and student responses can be monitored by school head

SPJ8-ENGLISH

SPJ8-ENGLISH
305269 - Baguio City High School - Main
07/16/21

You cannot enrol yourself in this course.

Download course

Contents

Open in browser

How the Learning Outcomes Data Is Collected and Processed

1 DATA ENTRY

Schools **encode regularly** and directly into a **standardized database**.

2 DATA CLEANING

Division IT team **checks for accuracy, completeness, and consistency**.

3 CLOUD UPLOAD

Validated data is **uploaded and stored securely in the cloud** for **real-time access**

4 DASHBOARD PROCESSING

Input the KPI

5 INSIGHTS & ACTIONS

The dashboard highlights patterns and **performance gaps through visual analytics**

What Bible story used data analytics?





“Noah didn’t just build an ark—he ran the ultimate predictive model.

- 40 days of rain forecast
- 100% flood probability
- Perfect resource optimization

From SPREADSHEETS to DASHBOARDS

1

STRATEGIC MONITORING OF DISTRICTS AND SCHOOLS

Identifies gaps and strengths, guide in prioritizing schools

2

MORE TEACHER - STUDENT INTERACTION TIME

guide targeted interventions, teacher as a guide

3

GENERATE ACTIONABLE INSIGHTS AND ENSURE ACCOUNTABILITY

transparency, resource allocation and professional development

KEY LESSONS

• **1** **Build your DASHBOARD**

Identify what data is needed for decisions and actions

• **2** **Get BUY - IN**

Who will do what and when.

• **3** **Make DATA your CENTERPIECE**

Integrate in key meetings like:

- School Monitoring, Evaluation and Adjustment Meeting(MEA)
- District MEA, Division MEA
- Regional ManCom, Monthly DExeCom
- Program Implementation Review (PIR)
- Local School Board Meeting

• **4** **Keep it SUSTAINED**

Create systems that will facilitate data collection, processing, and sharing of practices such as a set Division policy and procedure, EdTech Forum and Events.

Challenges



Cultural Adoption

shift in mindset



Multiple Systems

integration with existing systems such as BEIS, LIS



Data Collection and Accuracy

incomplete and inaccurate data affects dashboard reliability

Challenges



Cultural Adoption

shift in mindset



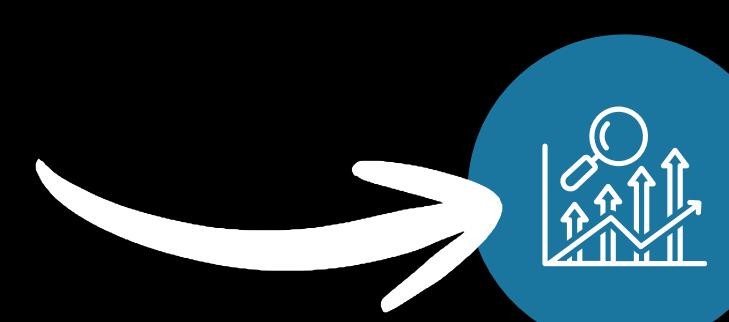
Data Literacy

PD, AI information campaign, pilot schools



Multiple Systems

integration with existing systems such as BEIS, LIS



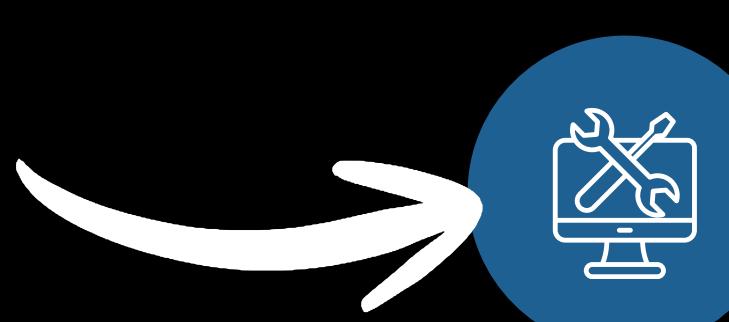
Integration

showcase Project FAITH to RO/CO for integration



Data Collection and Accuracy

incomplete and inaccurate data affects dashboard reliability



Automate and Humanize

utilization of Dashboard at the school to the division level





From division dashboards to school-wide and classroom-level initiatives, Baguio City schools are embracing data analytics to guide learning and interventions --- making data work for us. Join us.



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Sharing Baguio's Experience

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