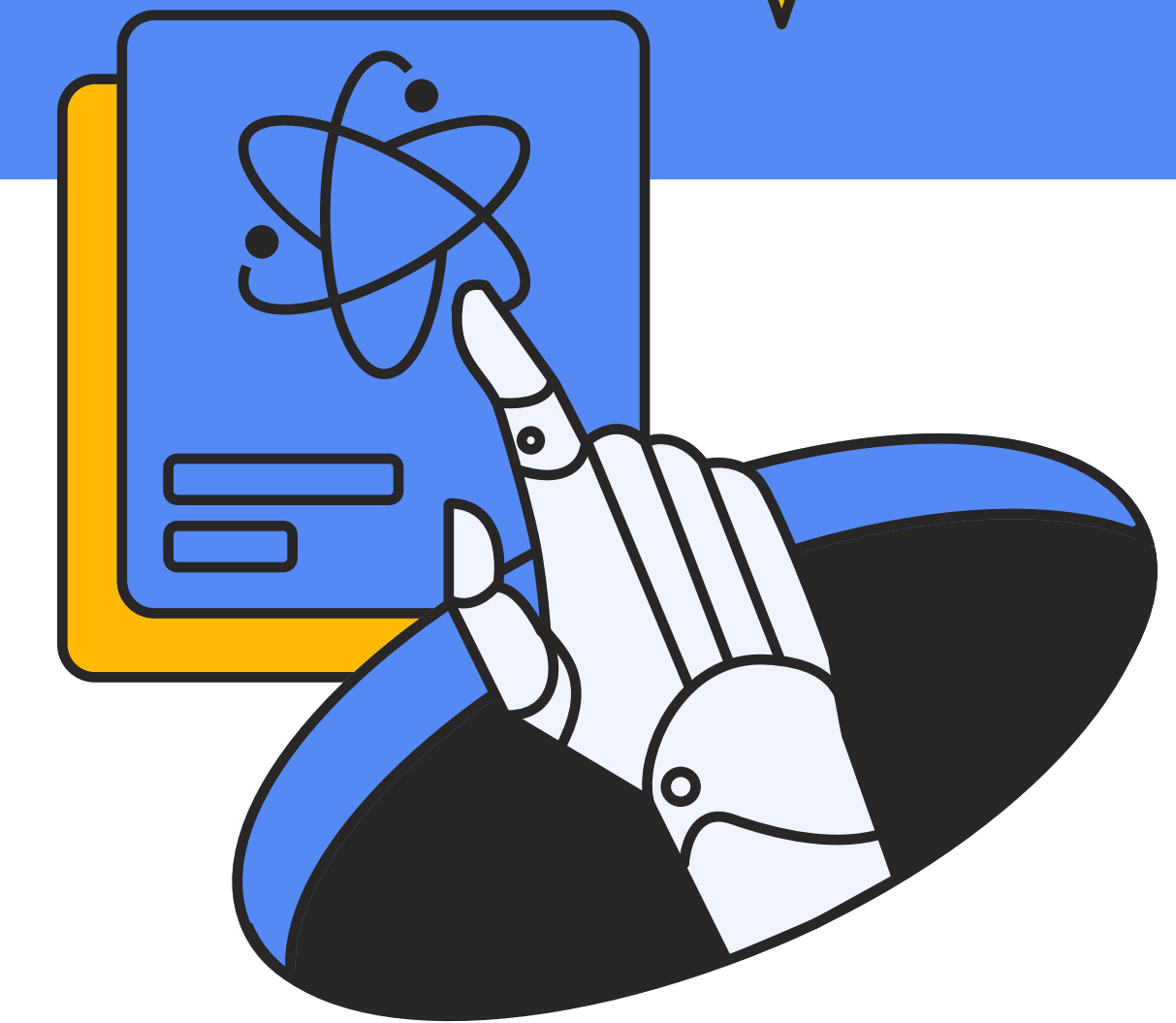




MIKKO CASE STUDY

Barriers to AI Adoption in Education and How We Overcame Them



Mykhailo Kalitkin

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UNOWA

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EdAI 2026

The First International
Conference on Educational
Systems for Digital and AI Literacy

dtrsociety.org/edai2026

About the speaker



Mykhailo Kalitkin

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UNOWA

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Built two IRC centers for children
with SEND in Ukraine and Poland



Established a dedicated R&D center —
the birthplace of the MIKKO™ line
of inclusive equipment and methodologies



DRIVEN BY A PERSONAL MISSION
AS THE FATHER OF A CHILD WITH AUTISM

15+

years
of experience

30+

international
projects

600+

national projects

100+

methodological
manuals

STEAM EDUCATION

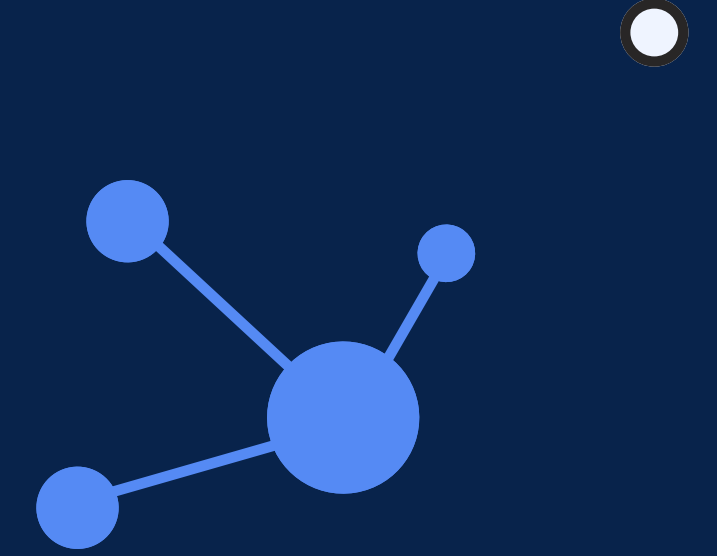
INCLUSIVE ED / SEND

AI IN EDUCATION

EDTECH

R&D

AI is already in education, but there are no results



USING LLM
FOR LEARNING



TRANSFORMATION
OF EDUCATION

THE FOCUS HAS SHIFTED
FROM TASKS TO TECHNOLOGY



80%



IMPLEMENTATIONS
WITHOUT MEASURABLE
EFFECT

THE MAIN MARKET MISTAKE

AI is implemented for the sake of AI,
instead of solving specific problems

we took a different path



PROBLEM-BASED AI

We start not with technology,
but with real educational system challenges



Inclusion

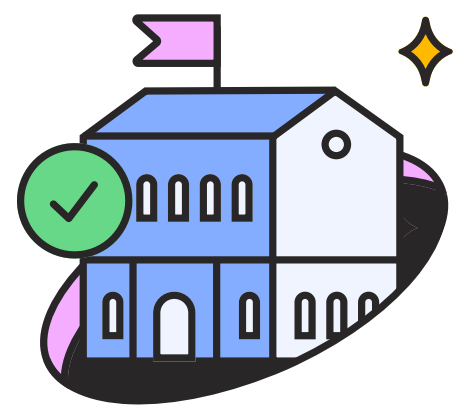


STEM

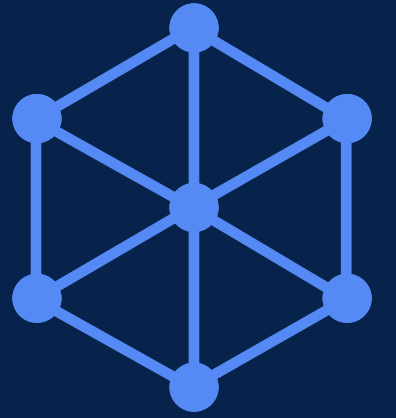
Specialists'
work



Scaling

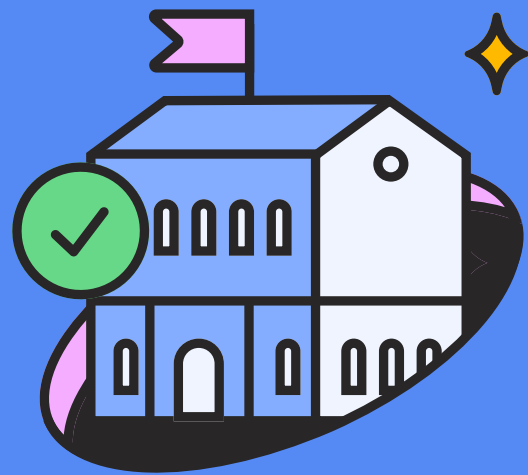


The result occurs only at the intersection



Knowledge

Structured knowledge



Spaces

Environment

Schools

IRC

Laboratories

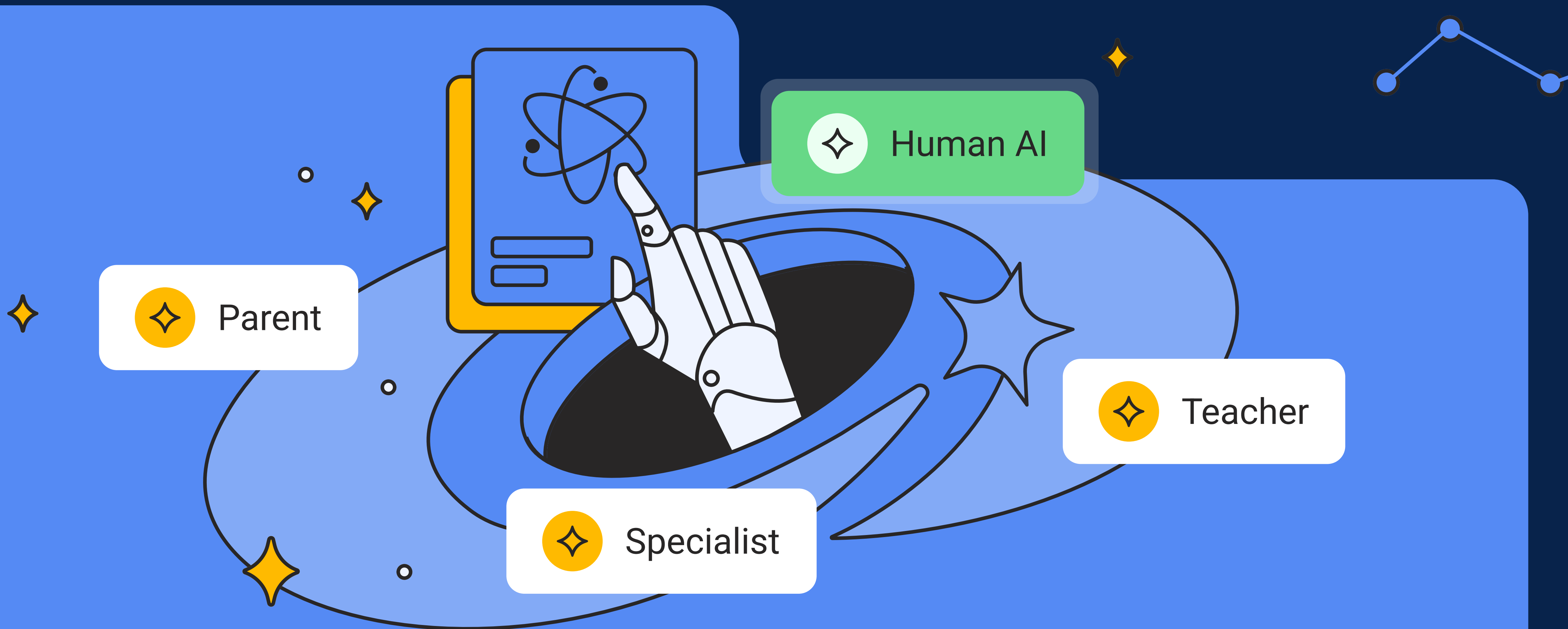


Innovation

Technologies

AI

AI doesn't replace humans, it enhances expertise



BARRIER

1

No practical value

● BEFORE →



Demos and
pilots

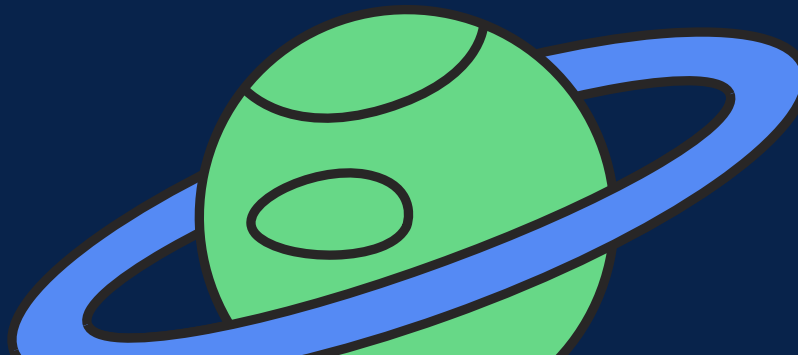
● AFTER



Help
24/7



Process
automation



24/7 support for specialists and parents

● BEFORE →



Waiting weeks
for a response

● AFTER



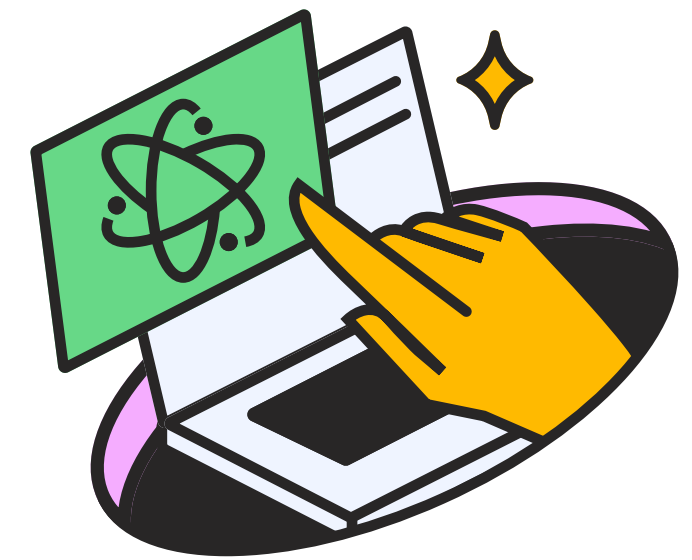
Instant
support



DECISION-MAKING SPEED



ERROR REDUCTION



Creating custom development programs

● BEFORE →



3–6 months

● AFTER



1–2 days

- ✓ SYSTEM ACCELERATION
- ✓ SCALABILITY

Information about the IDP

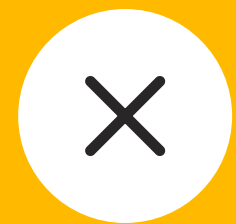
Program creation date	01.01.2026
Program review date	01.01.2026
Name of the specialist who created the program	Maybelle Madalyn

Personal data of the child

Name	Egorov Maxim
Date of Birth	01.01.2020
Age at the time of assessment	5 years

AI in STEM is not a chat

● CHAOS →

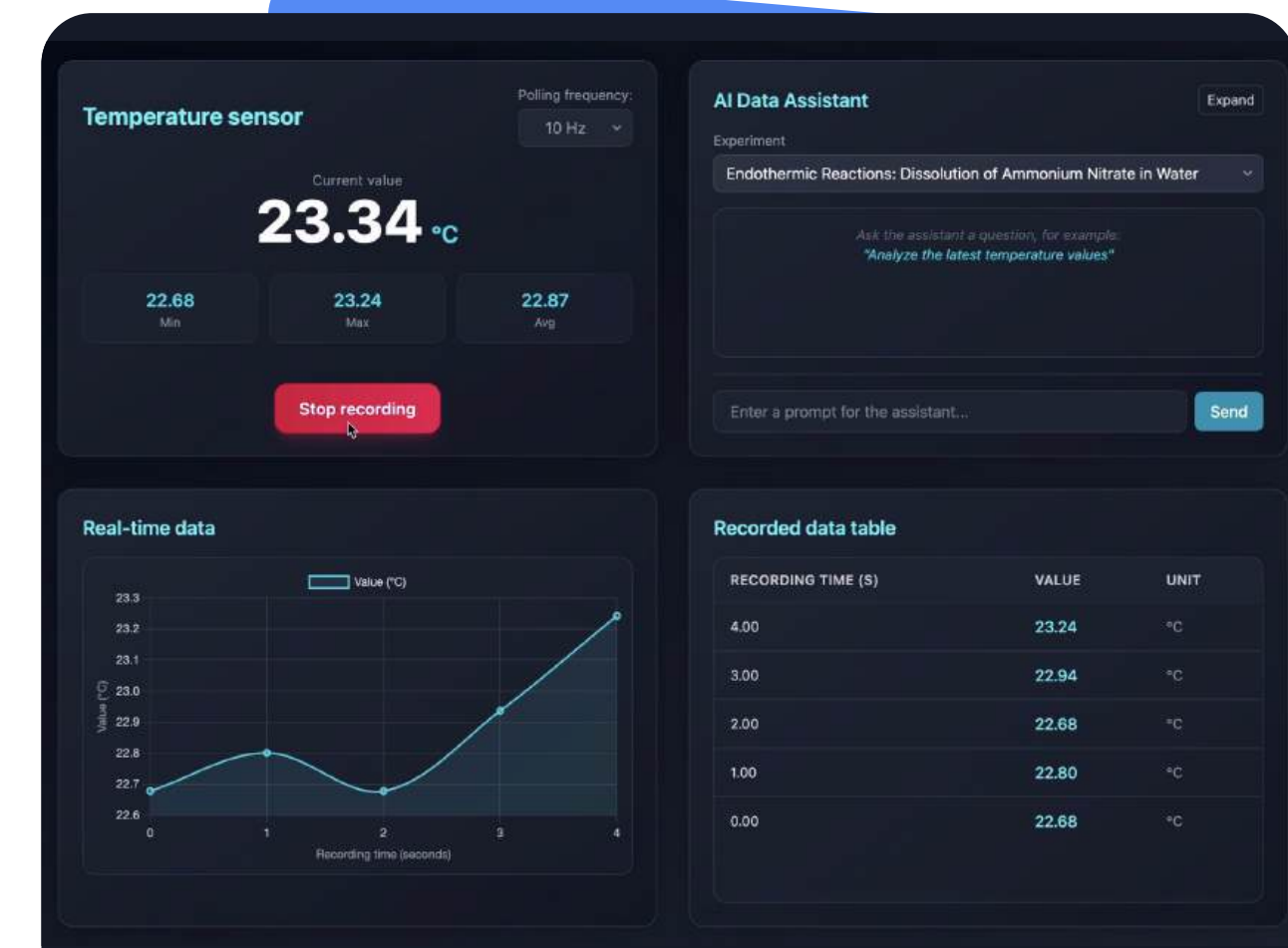


Dialogue
with LLM

● STRUCTURE



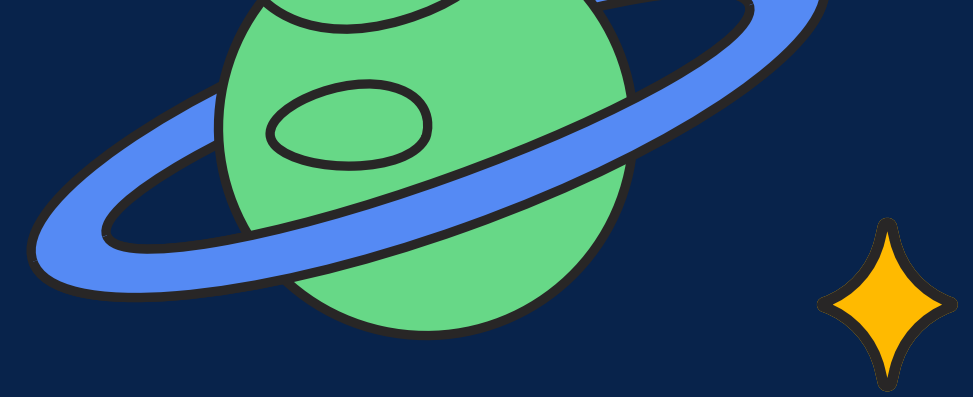
Learning
in the knowledge
corridor



BARRIER

2

Answer quality



PROBLEM



How to reach expert level?

SOLUTION

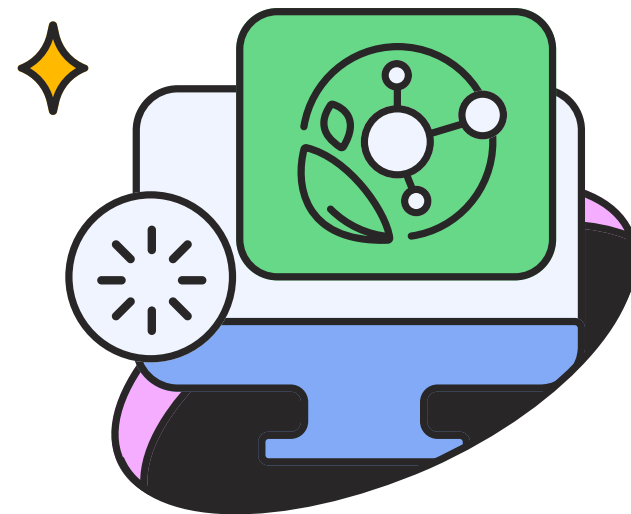


Own knowledge architecture



RAG + Knowledge System

Proprietary
Knowledge Bases



Structured
Practices



Use Case
Scenarios



Quality and Ethics Control



Response
Control



Quality
AI Agents



Ethics
AI Agents

AI Methodologist. A New Key Role in the System



Practice Collection

AI Training

Knowledge Control

BARRIER

3

Lack of validation



● PROBLEM

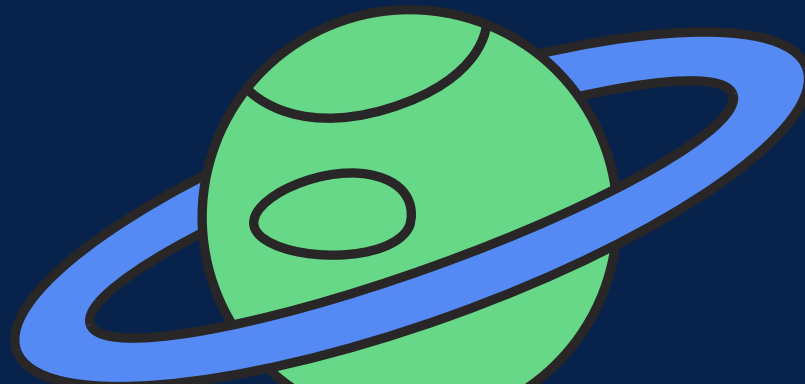
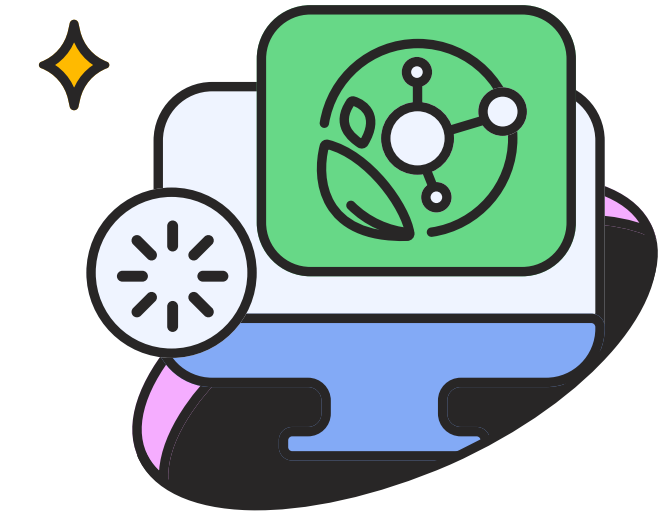


AI is tested
in laboratories

● SOLUTION



We test in a real
system



Real Implementations

✦ Schools

✦ Inclusion Centers

✦ STEM Laboratories



Results

>90%

ANSWER
ACCURACY

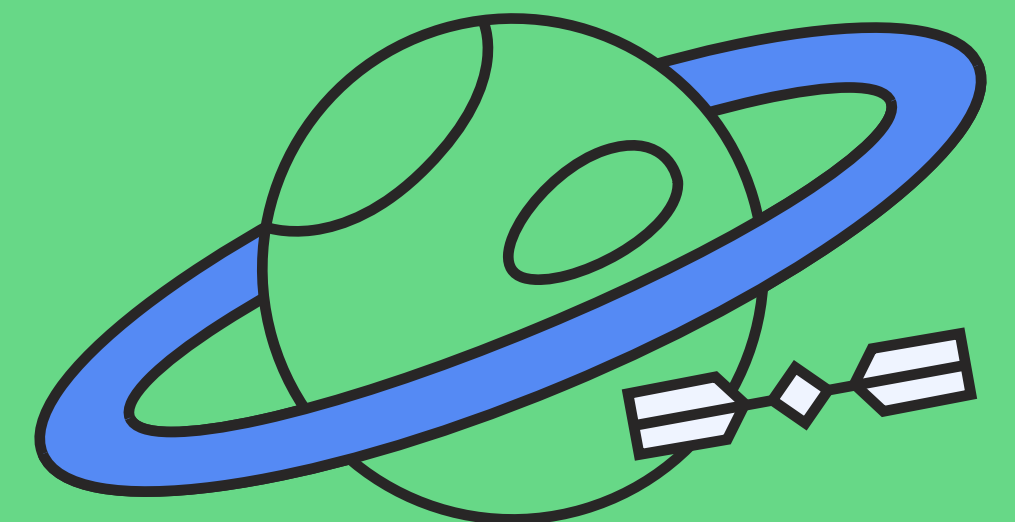


10–50X

PROCESS
ACCELERATION



SCALABILITY



International Recognition

bett

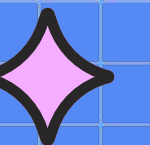
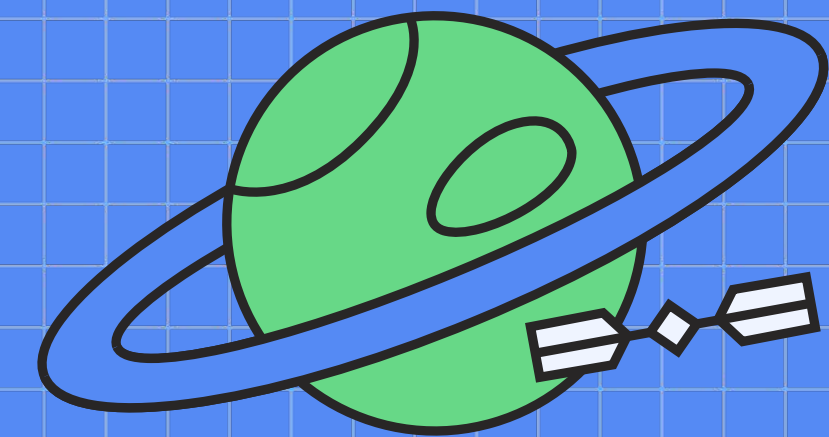
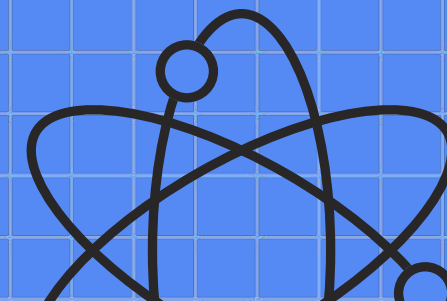
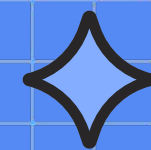
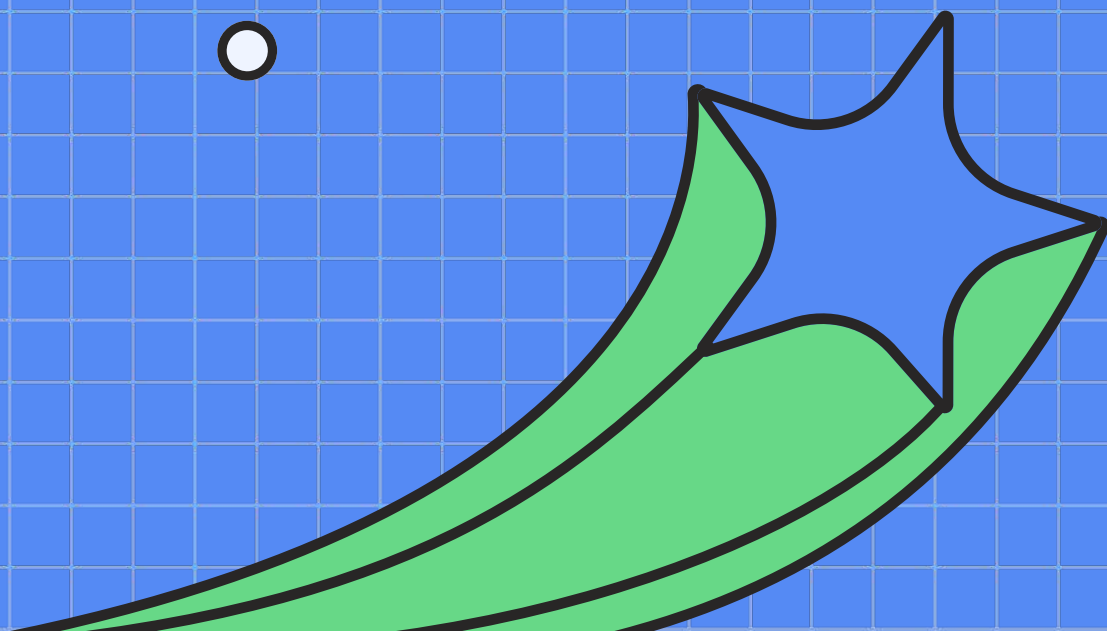
Winner:
Inclusion

worlddidac
A F F I L I A T E

Gold
Member

ETIH

Winner: Best
Special Needs &
Inclusion Solution



Speed is not transformation. Quality of decisions is

● PAST

AI as an assistant

Generates
Accelerates
Simplifies

Enhances human
actions

AI as analytics

Measures
Analyzes
Highlights problems

Provides
understanding,
but not the solution

● FUTURE

Human AI

- ✓ Participates in decision-making
- ✓ Supports development
- ✓ Considers context and the human



IMPROVES THE DECISIONS
THEMSELVES

From accelerating actions → to quality decisions

THE FUTURE OF EDUCATION

It is not AI that will
replace education,
but those who learn
to use it correctly

