

AI Tutor: A Teaching Assistant

 **Microsoft**
Solutions Partner

Infrastructure (Azure)
Data & AI (Azure)
Digital & App Innovation (Azure)
Security
Biz Applications



Celebal Specialization and Strength



Partnerships



Advanced Specialization



- AI & Machine Learning
- Analytics
- Infra and Database Migration
- Kubernetes
- Cloud Security
- Low Code No Code
- Intelligent Automation



INDIA | USA | CANADA | APJ | MIDDLE EAST | AUS

2800+
Employees

800+
AI experienced
professionals

500+
AI Certifications



Industries We Serve



Manufacturing



Retail & CPG



Financial
Services



Energy &
Sustainability

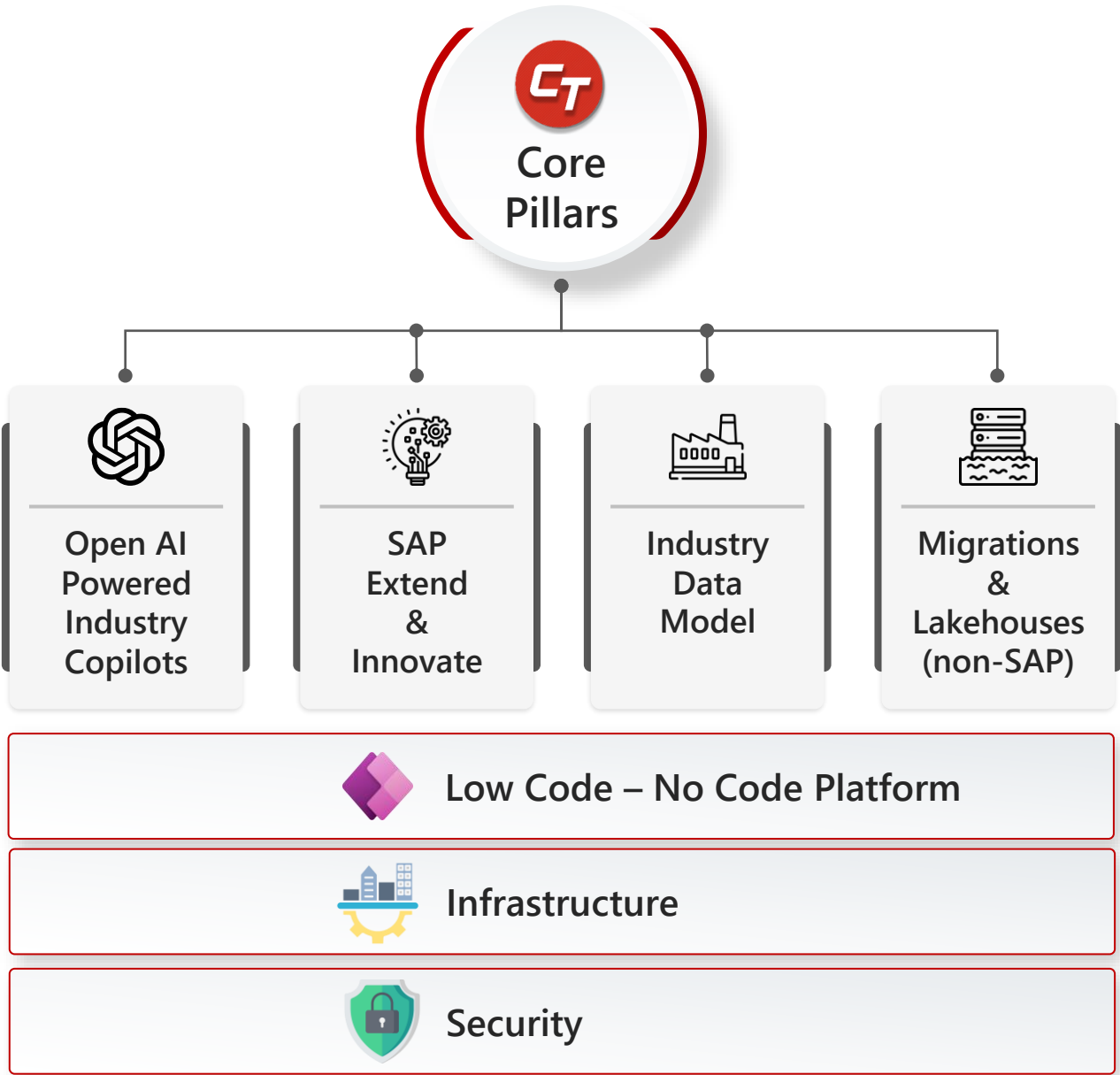


Healthcare &
Life Sciences

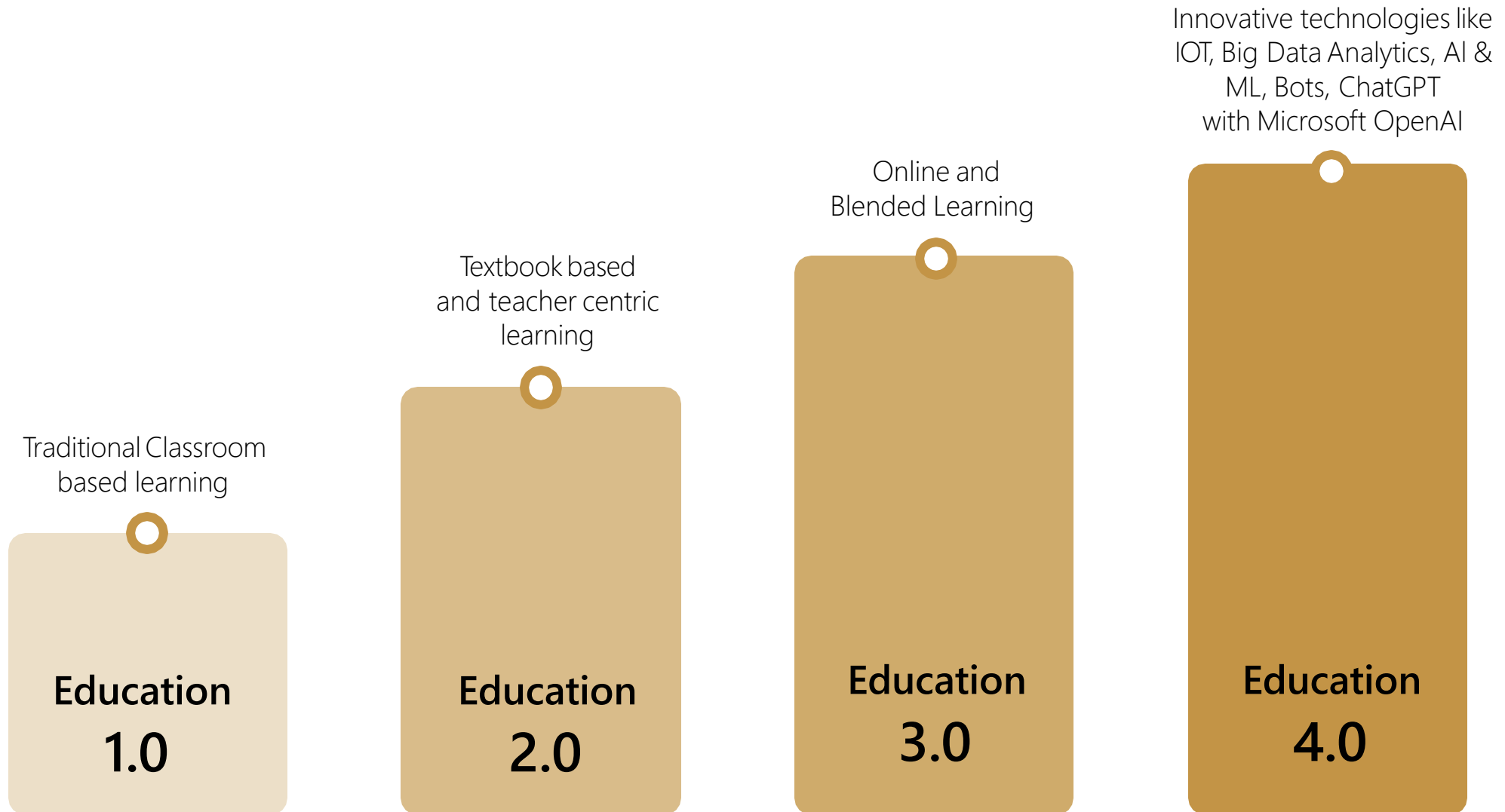


Media &
Entertainment

Celebal Core Pillars



Evolution of Education System



Education 4.0

Education 4.0

A new era of education that leverages digital technologies, a data-driven approach, and a learner-centric focus driven by technological advancement and globalization



- Personalization



- Digital literacy and skills



- Lifelong learning



Globalization and connectivity



Data-driven decision making



Innovation and creativity

Microsoft and OpenAI



Ensure that artificial
general intelligence
(AGI) benefits humanity.



Empower every person
and organization on the
planet to achieve more

GPT-3, 3.5, 4

Generate and Understand Text

Codex

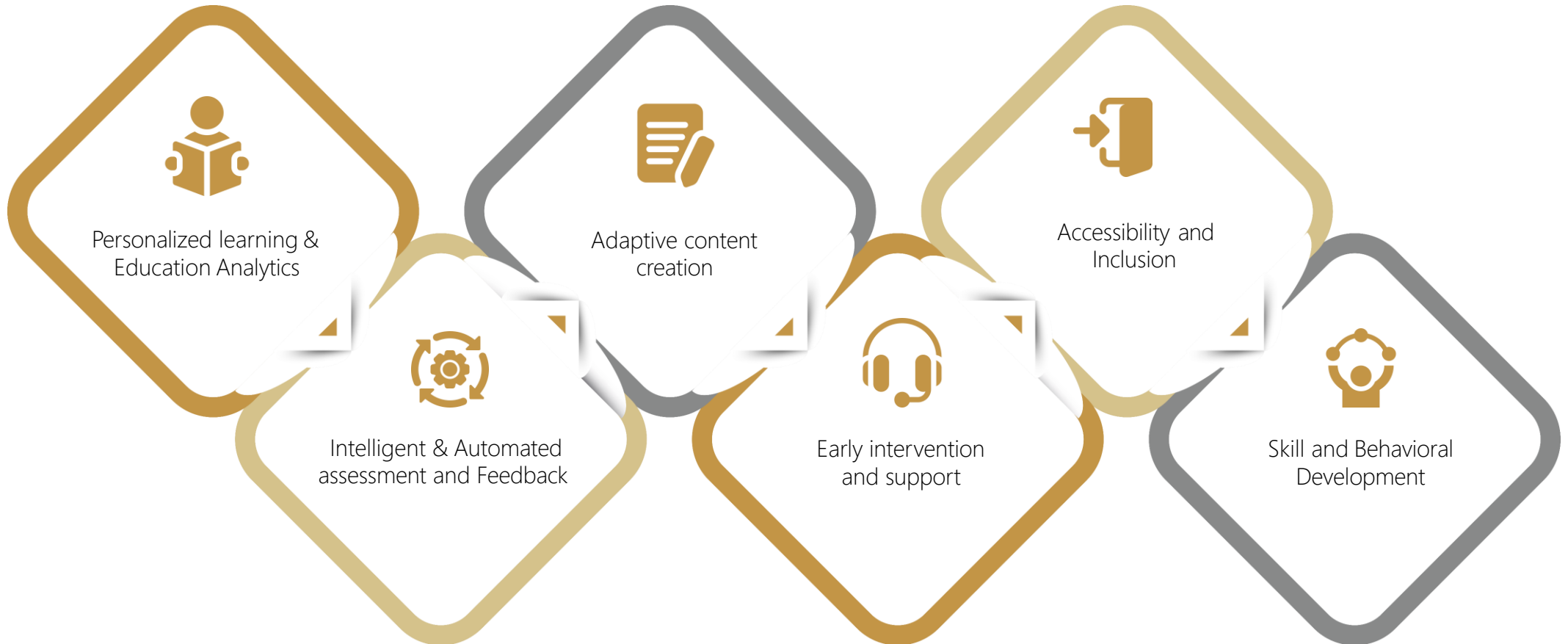
Generate and Understand Code

DALL·E

Generate images from text prompts

Artificial Intelligence Impact in Education

Unleashing the Power of AI: Redefining Education for the Digital Age



AI Tutor

Educational Co-Pilot that provides students with personalized support in their learning journey outside of the classroom



Designed to:



Improve students’ understanding of subjects



Offer instant feedback and guidance



Make learning more engaging, fun, and interactive

Capabilities

Personalization

Gamification

Adaptability

AI Tutor Performance

Multimodality

Student outcomes

Customization

Accessibility

Scalability

Responsible AI

The solution bring the benefits of AI to the classroom and to transform the future of education.

Our Solution Functionalities



Personalized Learning

An AI-powered tutor to enhance education with personalized learning, adaptive instruction, and real-time feedback for students, teachers, and parents.



Assessment Creation

OpenAI generates high-quality assessment questions and question banks for teachers to use in creating exams, quizzes, and assignments.



Assessment Grading

- Automate grading process for essays, short answer and multiple-choice questions, identifying strengths and weaknesses, and saving teacher's time.



Intelligent Tutoring

- AI-powered tutoring systems for personalized guidance based on learning progress and interests, with analysis of student data to provide targeted instruction.



Programming Assignments

- Generate programming assignments and provide feedback on student code and provide suggestions on how to improve performance and optimize code.



Analytics Dashboards

- Create analytics dashboards to monitor student performance and provide insights to parents.



Gamification

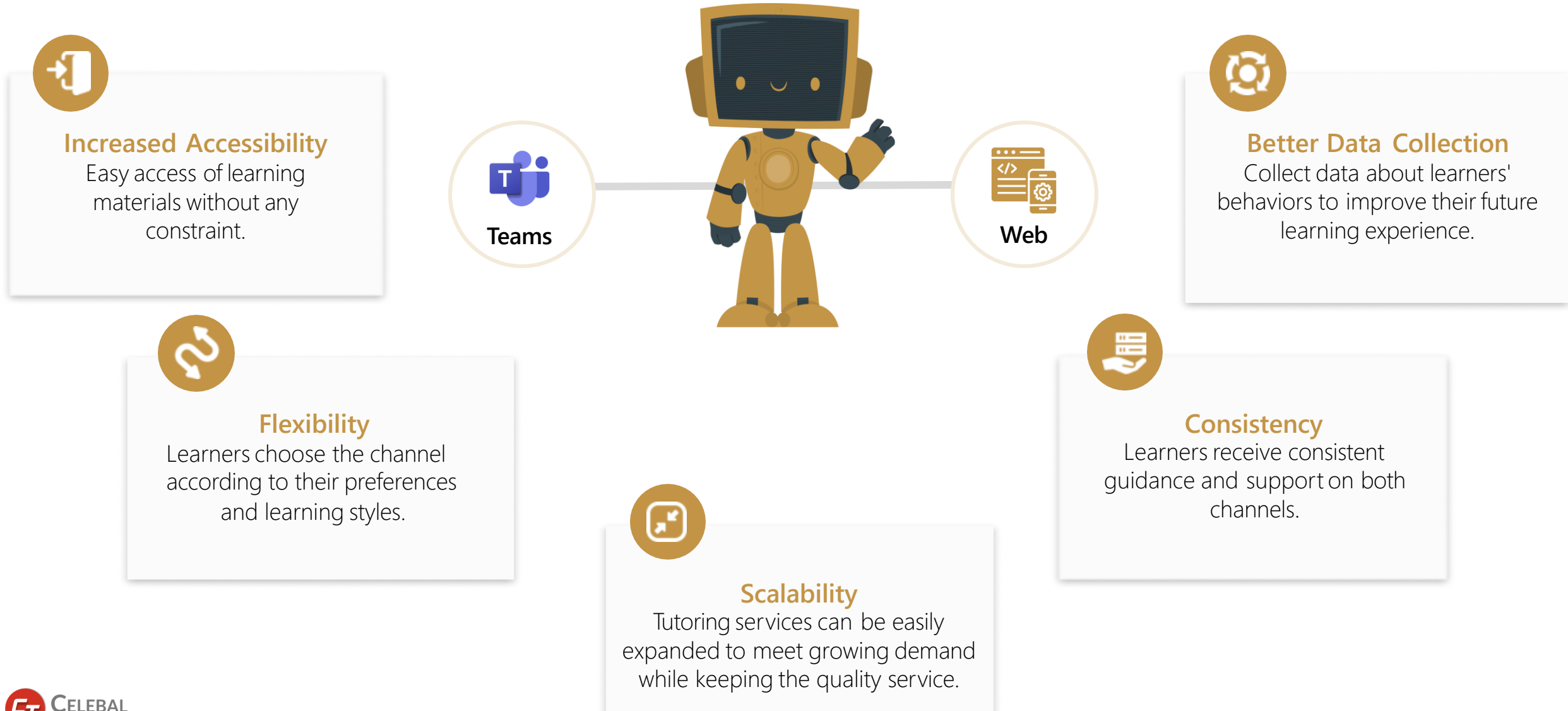
- Use gamification techniques to motivate students and enhance learning by creating games that teach specific concepts and skills



Recommendation Engines

- Provide personalized learning recommendations to students based on their learning progress, interests, and skills.

Learn from anywhere on any device!



Future Roadmap

Added support for Visual content

- Intelligent video navigation markers based on text from Transcripts and OCR
- Custom Video Navigations & Heatmaps for Input Query



Audio Podcasts

- Support for podcast content
- Audio transcripts



Multilingual Support

- for additional languages for foreign students



Tutor for Grading

- For automated grading of students



Image Explanation

- Solution will provide a mechanism to upload an image and get a textual explanation of the image



Summarization of content

- Textual, Video and Audio



Futuristic Tech

- HoloLens enabled learning



Student Persona

Student Journey

Interaction

Student starts interacting with the tool to begin the journey

1

Problem Solving

- Solve complex problems recommended by the tool.
- Participates in English writing, speaking skills and Assessments

3

Review & Feedback

- Reviews the performance through the dashboard
- Shares the feedback to the Teacher

5

Concept Learning

- Learn concepts in a playful and gamified way
- Student becomes a regular user

2

Exam Preparation

- Takes part in the peer level competition
- Takes help in exam preparation
- Stress Management

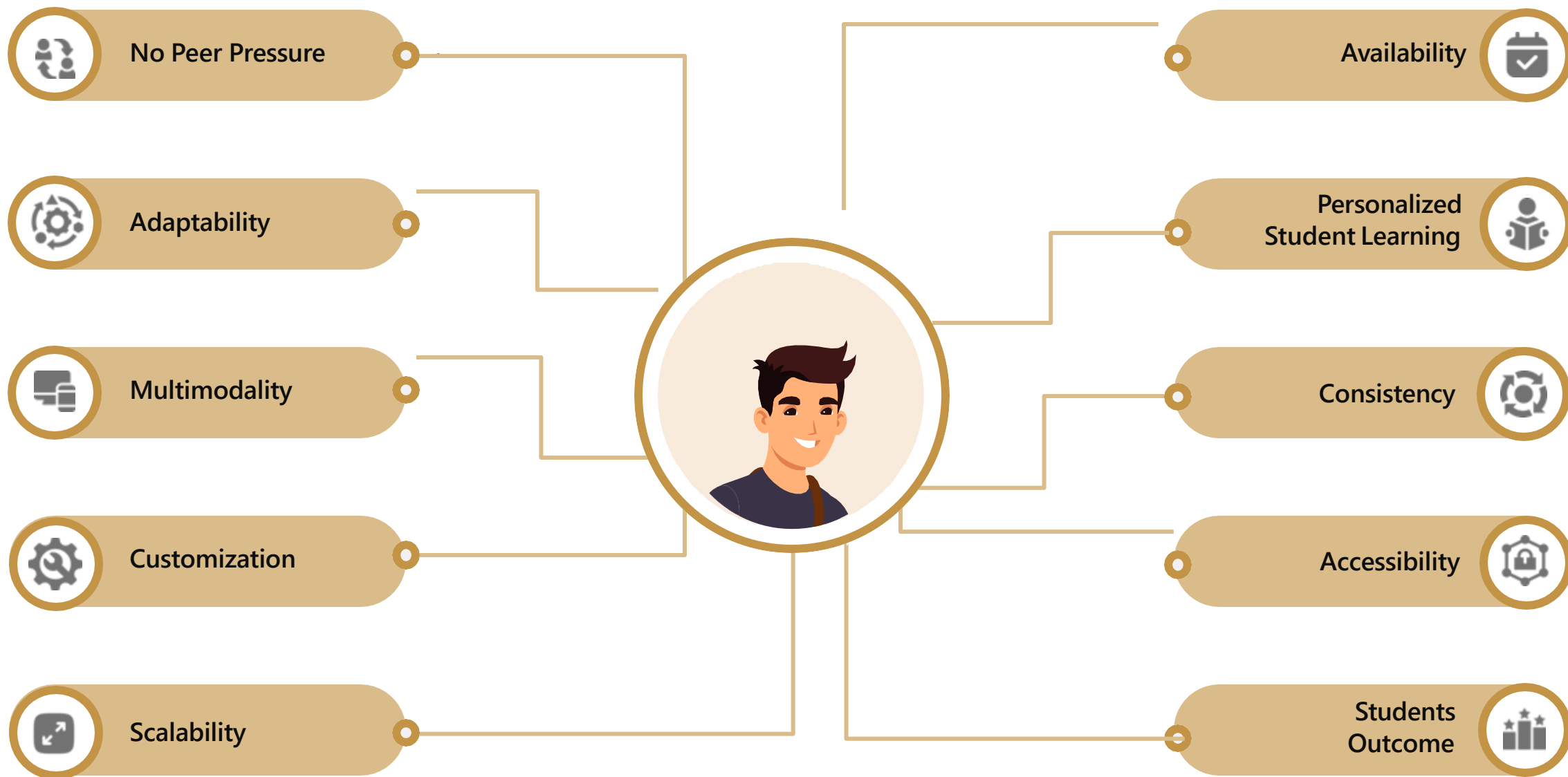
4

End Year

- Student's current session ends
- He/She resumes using the tool once the new session will start

6

Value Proposition | Students



Cluster of Classes

Group A

(Class 1st – 2nd)

Audio-based learning

Basic Math Operations,
Counting Exercises

Vocabulary building,
Pronunciation exercises

Group B

(Class 3rd to 5th)

Audio-based Learning

Writing Skills, Vocabulary
building, Pronunciation
exercises

Interactive multiplication
and division tables

Group C

(Class 6th to 8th)

Text-based material and
interface

Public Speaking, Science
projects, Critical Thinking,
etc.

Conduct Olympiads

Group D

(Class 9th to 12th)

Text-based material and
interface

Advanced doubt clearing
with graphs and diagrams
explanation

Smart study time-table and
mental well-being

Student Assessment

AI-enabled Continuous assessment: Test Series and smart scheduler.

Digital Assessment: Includes AI Quizzes, interactive simulations, or computer-based performance tasks.



Spoken Fluency / Pronunciation Assessment: Assessing Student's ability to comprehend Spoken English.

Automated Writing Evaluation: AWE provides automatic feedback on writing.



Student Features



Buddy Match

Assigns Social Service tasks to students, Smart Students will be buddies of fellow students, 20-30 hours of social service.



Dialogue-based tutoring systems

AI and language processing simulate online spoken tutorials.



AI Driven Skill Passport

AI-enabled record of lifelong learning achievements.



Learner Retention

Suggest revision material to reinforce previous learning.



Track Progress

Track self-performance and receive instant feedback..



Continuous Improvement

Improve personalization by continuously collecting data.



Course access

Easy access to the courses for students to learn at their own pace and on their own schedule.



Discussion forums

Collaborate and engage in discussions with peers and instructors.

Personalization of AI Tutor



Clayton L.

Private tutor in The Dalles, OR

Education

University of North Texas - Bachelors, Music Education ,
Eastern New Mexico University-Main Campus - Masters,
Pedagogy & Learning - TESOL & Reading I am currently
working on my doctorate in education.

Experience

I am a licensed preK-12 teacher. I have been a classroom
teacher in the U.S. and have taught at the primary,
elementary, middle, and high school levels. I have
international teaching experience. I have lived and taught
in China and South Korea. Most recently I was teaching
early literacy at a Canadian international school. I am
currently tutoring students living in foreign countries
online.

Subject Expertise

Social Sciences, College Essays, 8th Grade Reading, 7th
Grade Reading, 6th Grade Reading, 5th Grade Reading,
4th Grade Reading, 3rd Grade Reading, 2nd Grade
Reading, 1st Grade Reading, Music, ESL/ELL, TOEFL

Show More

Availability

Weekdays at any time, Weekends
at any time

Can Meet

Up to 45 minutes away for a flat
fee

Hobbies

I am a passionate trombone player
(hence the picture). I enjoy
working with students from 3 to 10
year old and developing reading,
which includes phonological
awareness, sight word vocabulary
and comprehension strategies. I
can work with advanced English
language learners studying for
TOEFL and IELTS. In addition, I
can work with adults learning
business English.

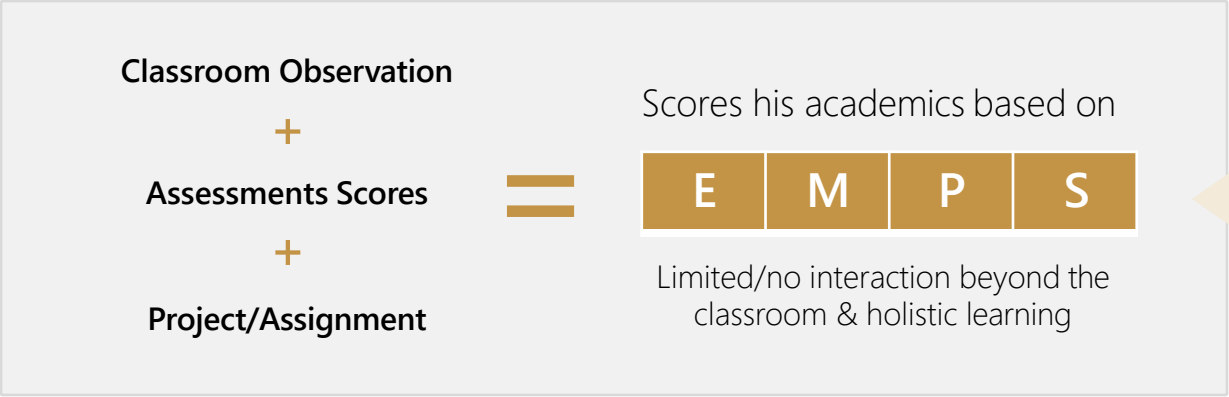
Student Dashboard



Teacher Persona

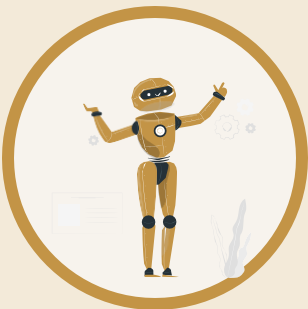
Value Propositions | Teachers

Current Approach



- | | |
|---|--------------|
| E | Exceeding |
| M | Meeting |
| P | Progressing |
| S | Starting Out |

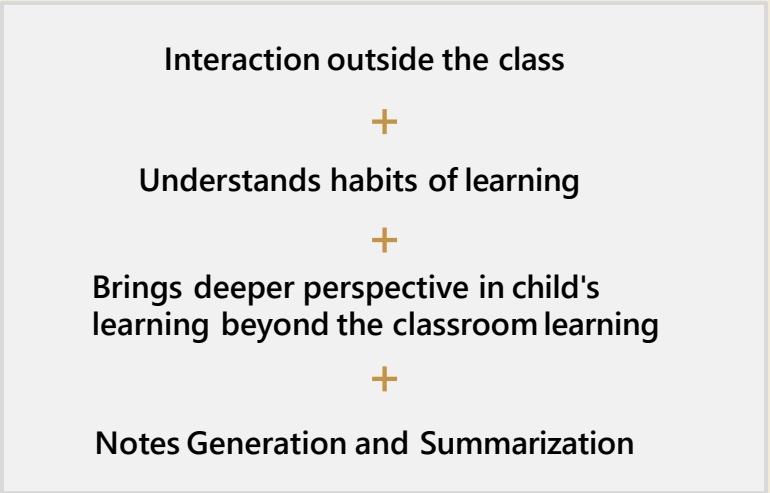
New Approach



Continues to assess & score the children basis academics

Artificial Intelligence

LIFE AFTER AI



- | | |
|---|-----------------|
| R | Rarely(R) |
| U | Usually(U) |
| O | Occasionally(O) |
| C | Consistently(C) |

Teacher Journey

Interaction

Teacher gets the plan & subject for the upcoming session

1

Assessment

- Teacher will use the tool to generate assignment and exam papers
- Numerical and theory based

3

Review & Feedback

Student's performance review through the dashboard and understanding his strength and weaknesses

5

Content

Teacher will use the tool to generate pause notes as per the subjects

2

Scoring

Teacher will use the tool to share scores of the students and grading them.

4

End Year

Teacher will wait for the next session to start

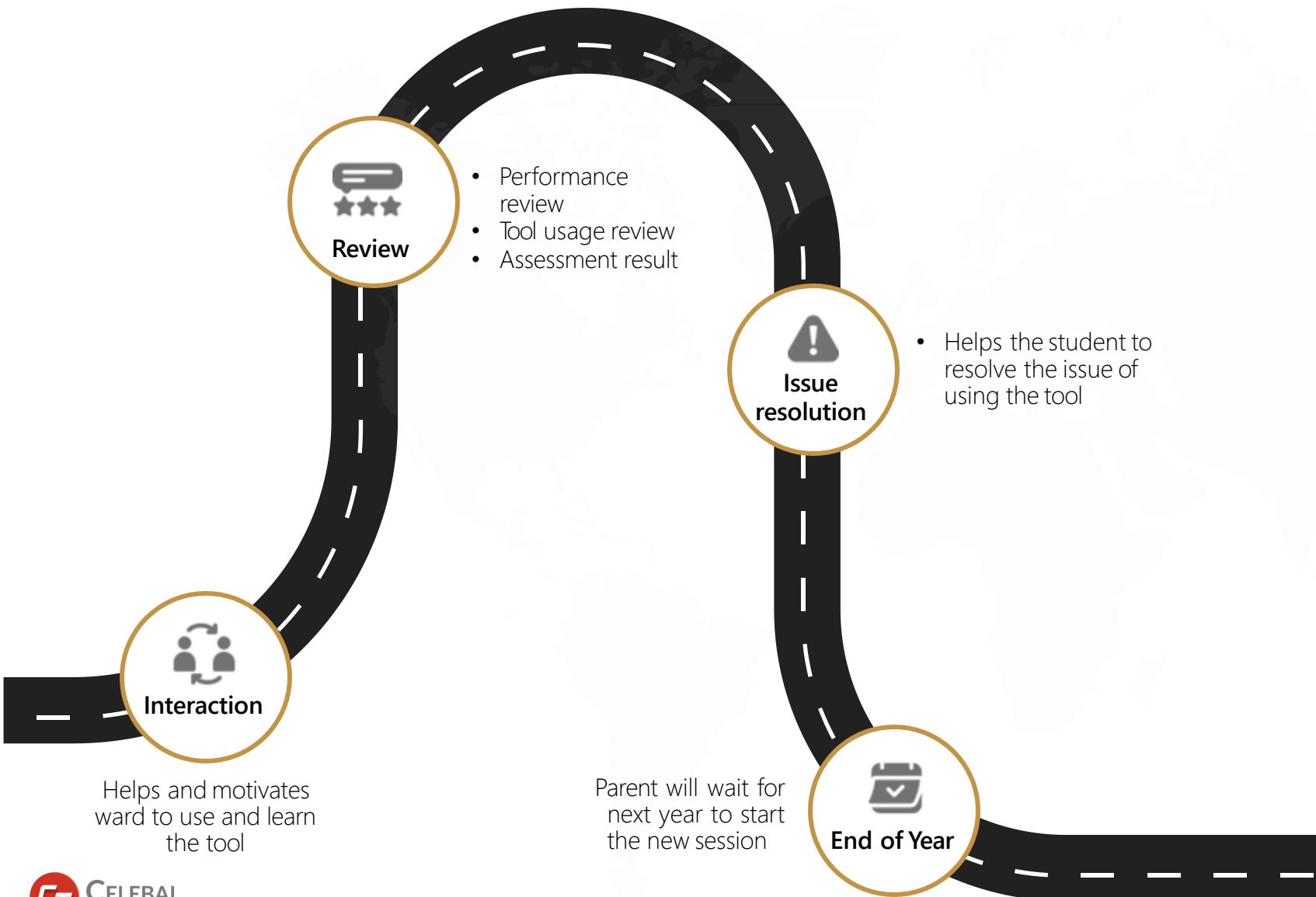
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Teacher Dashboard



Parent Persona

Parent Journey



Value Proposition



Student Habits
Observation Levels



Habits of Learning



Student Academics
Segment

Rarely(R)

Curiosity

Starting Out

Engagement

Occasionally(O)

Critical Thinking

Progressing

Active learning

Problem Solving

Usually(U)

Persistence

Meeting

Collaboration

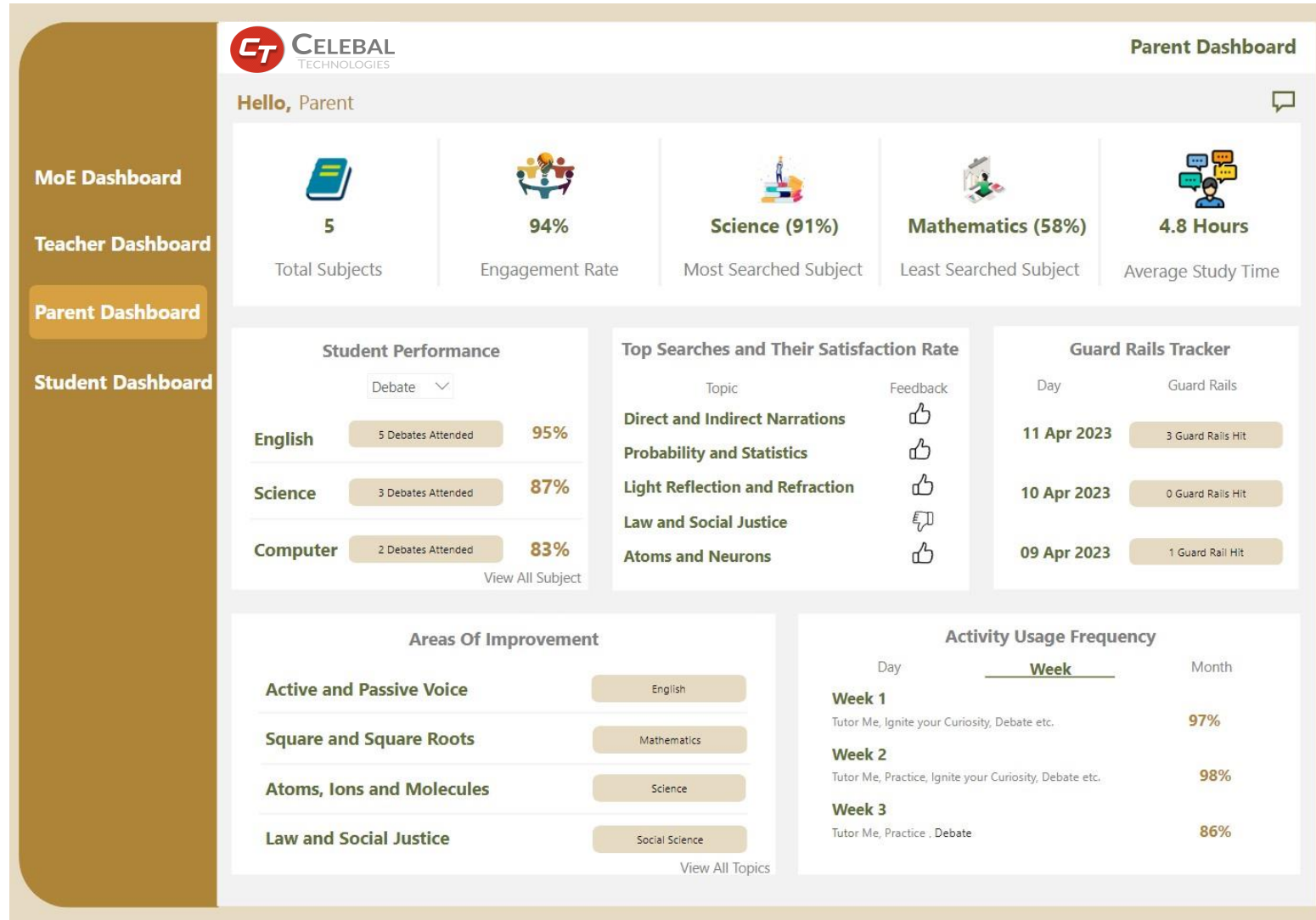
Consistently(C)

Communication

Exceeding

Journey

Parent Dashboard

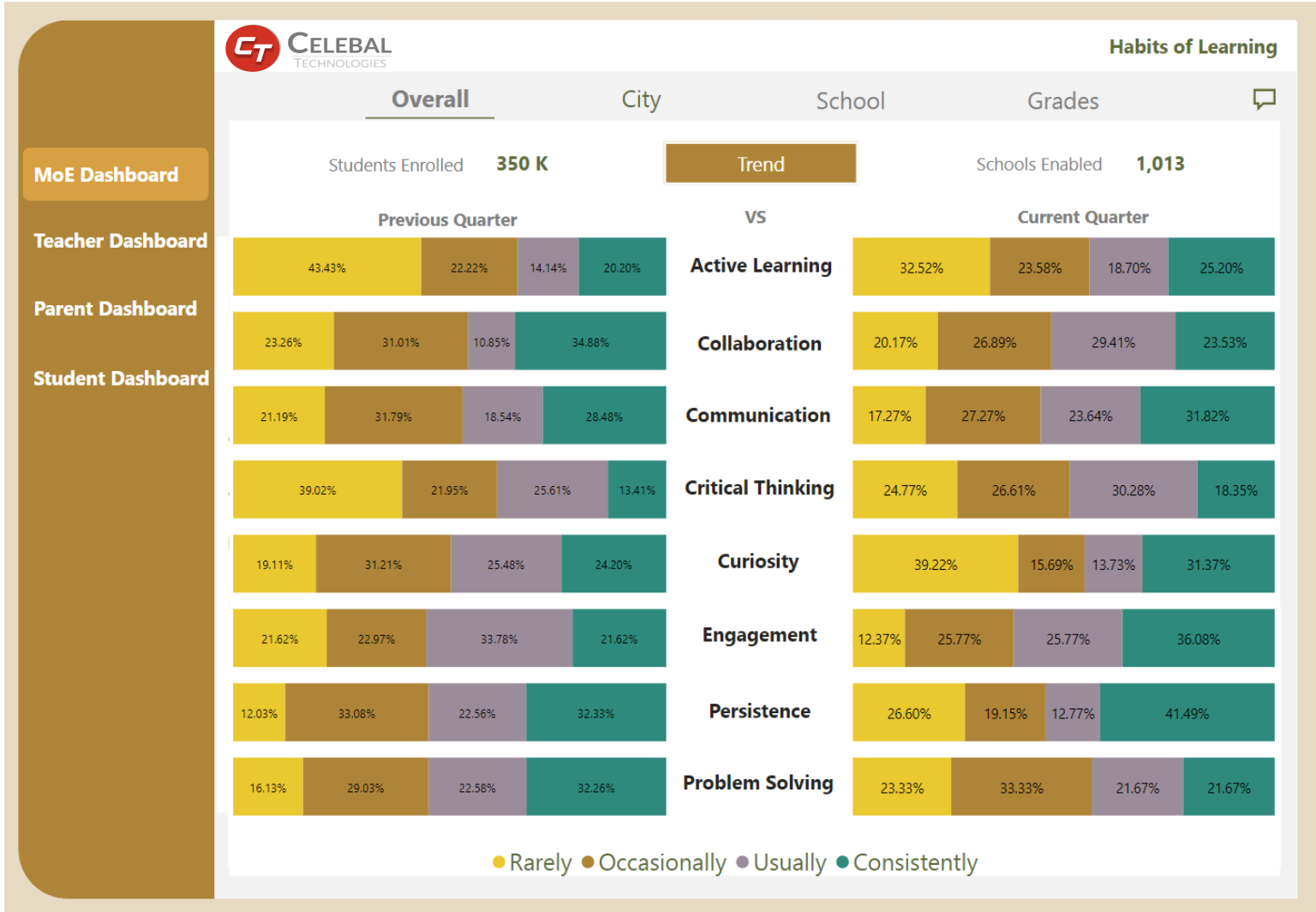


Ministry Persona

Dashboard



Dashboard | Habits of Learning



Dashboard | Trend in Habits of Learning



Thank You