

“AI for eContent Development

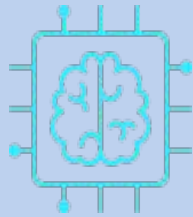
Capacity
Building for
State Resource
Groups –
Sept'2025



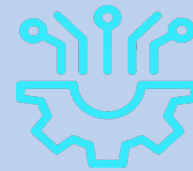
Dr Rajesh.D,
Associate Professor, CIET – NCERT

AI Adoption in Education

90%
of Educators are using AI



50
Countries implementing
AI policies



\$3B
Global investment in
EdTech

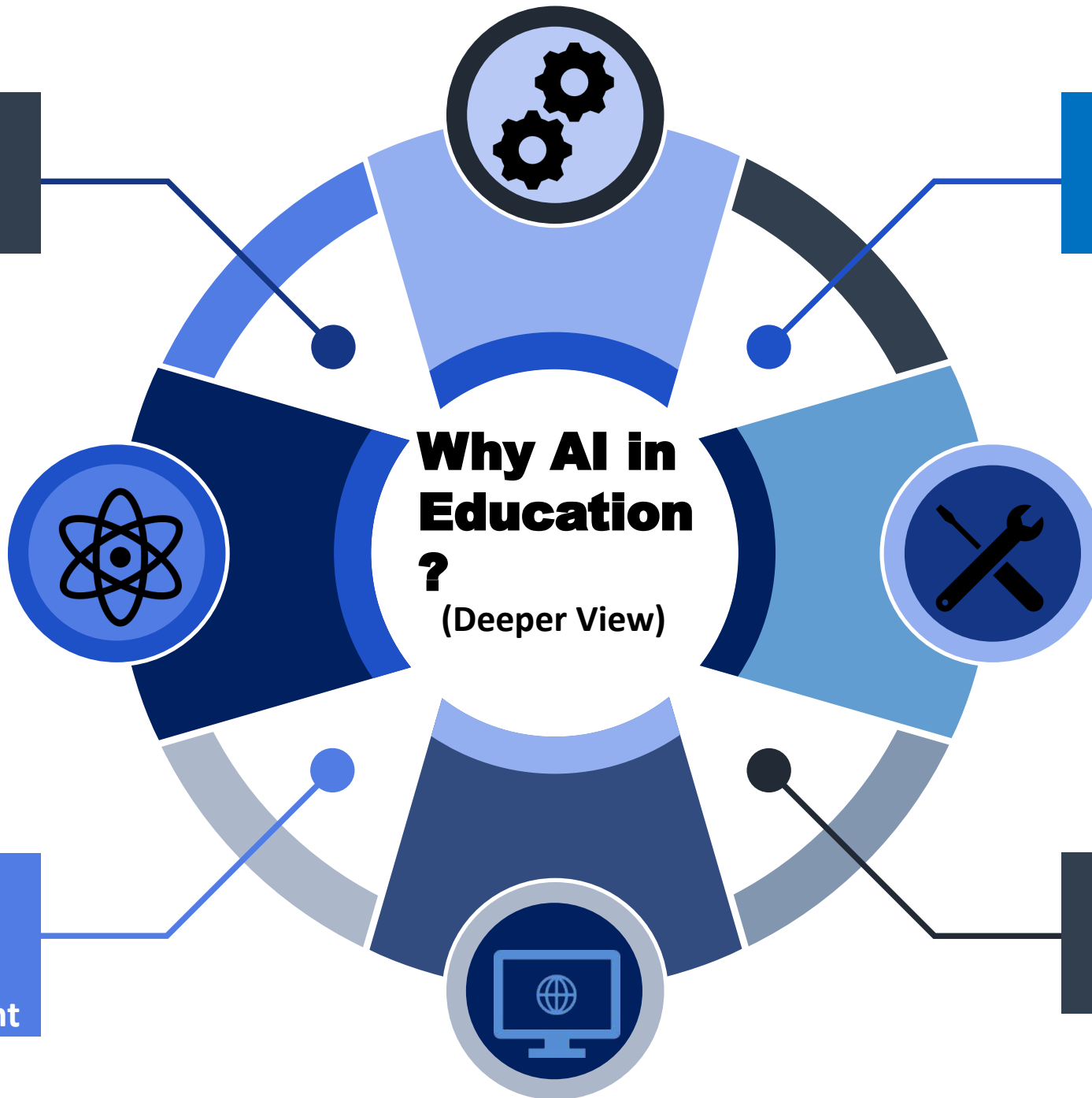
Shift from
teacher-centric to
learner – centric

NEP 2020:
Tech-enabled
pedagogy.

Why AI in Education ? (Deeper View)

AI enables
personalization,
scalability,
multilingual content

Case:
NCERT's DIKSHA +
AI translation



Why AI?



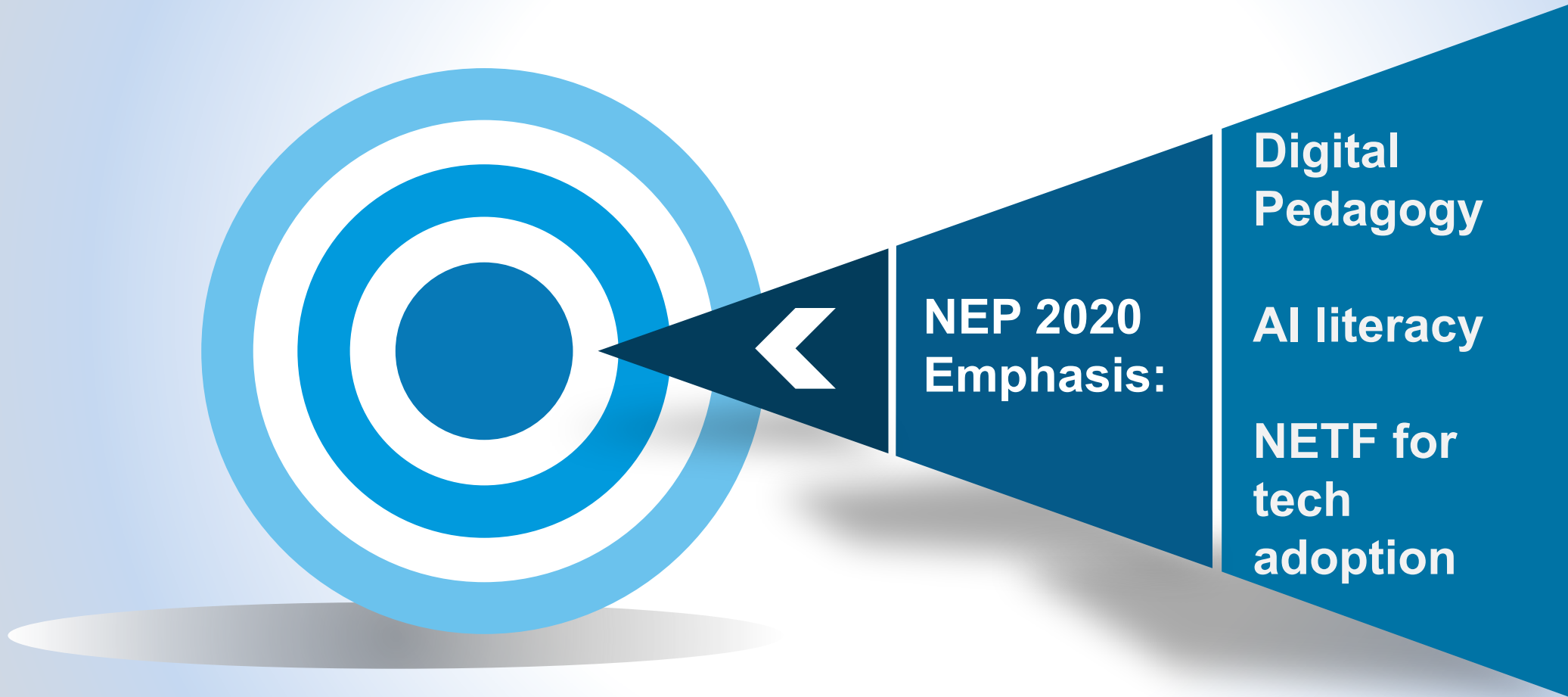
**Personalized &
adaptive learning**

**Multilingual
content → Equity
& inclusion**

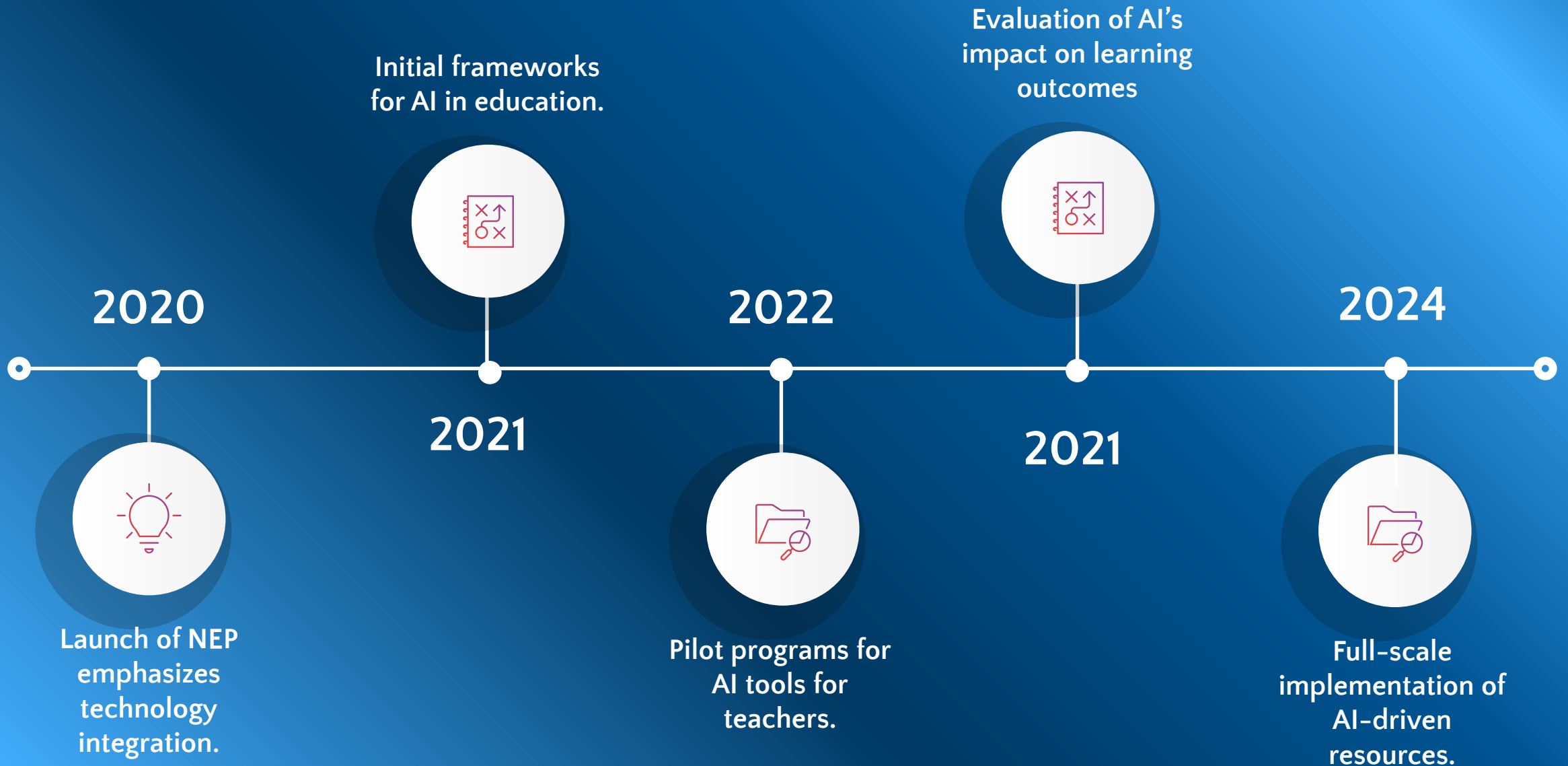
**Smart assessments &
progress tracking**

AI and NEP 2020 -

Vision & Role



Key Aspects of NEP 2020



For Students

AI literacy

Coding

Data Science

AI clubs

Innovation &
Entrepreneurship



For Teachers

e-Content creation

Multilingual tools

Professional learning

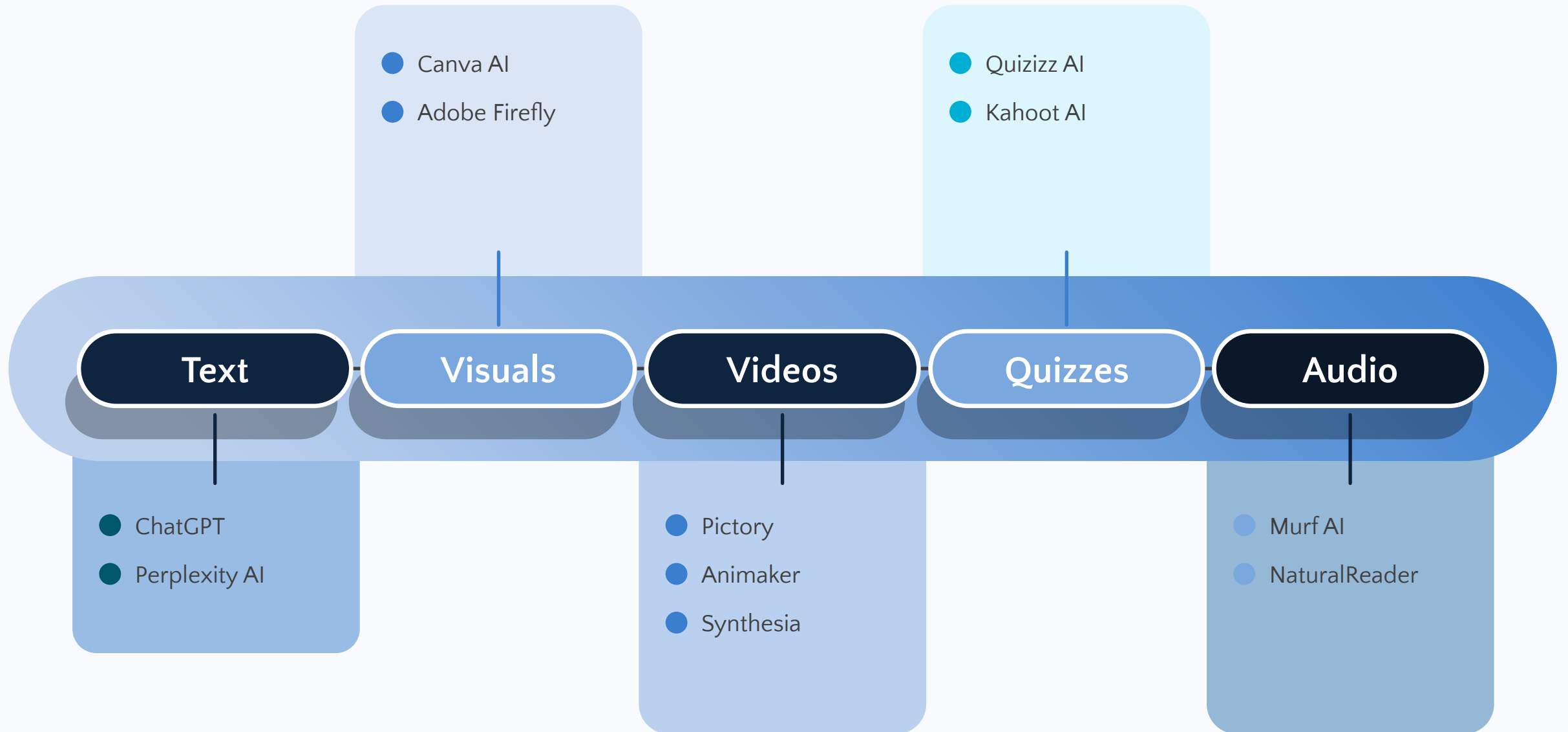
Analytics Support



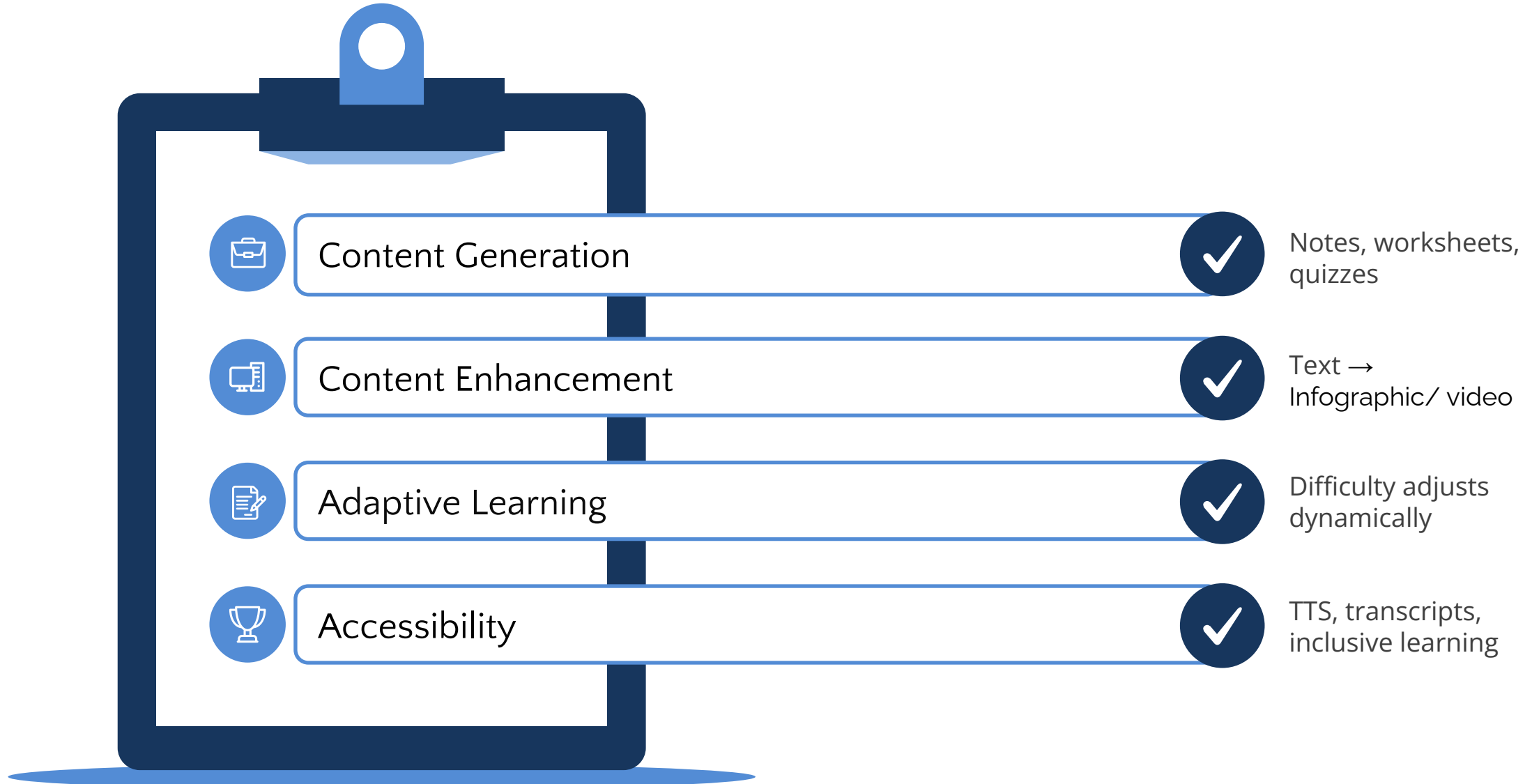
5 Stage Learning Spectrum for using AI



Advanced AI Tools for e-Content



Beyond Basics – What AI Really Brings



Benefits for Teachers

(Expanded)



Save 30-40% prep time

Focus on mentoring vs routine work

Prototype drafts quickly

Bridge rural/urban resource gap

Ensure equity via multi-format content



What is a Prompt?

A prompt = an
instruction/question you
give to AI.

Better prompts = Better results



Prompt Engineering for Teachers

Quality depends on prompt clarity

Level 1

Basic

Create a quiz on photosynthesis.

Level 2

Intermediate

10 MCQs for Grade 7 with answers.

Level 3

Advanced

10 MCQs for Grade 7 on Bloom's taxonomy (2 recall, 3 apply, 5 HOTS) + answers + explanations.

GOLDEN RULES OF PROMPTING

DEFINE OUTPUT FORMAT
(table, quiz, worksheet, poster)

**REFINE
ITERATIVELY**
Ask AI to improve or
simplify

ALWAYS REVIEW
verify before
using



GIVE CONTEXT
(Curriculum,
textbook ref)

BE SPECIFIC
(grade, topic,
type of content)

Subject-wise Refined Prompt Examples



01 | Math

Create a worksheet with 10 word problems on fractions for Grade 6 using real-life contexts (pizza, money, measurement). Provide step-by-step solutions in a separate section.



02 | Scienc

Write a student-friendly explanation of the water cycle for Grade 5. Use simple language, a 4-step diagram outline, and add 3 MCQs at the end.



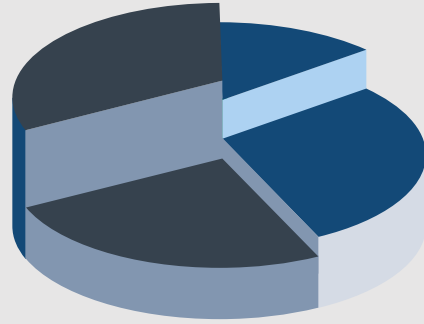
03 | Social

Science
Prepare a timeline of 10 key events leading to India's Independence (1857–1947). Present in a table: Year | Event | Significance. Add 3 critical thinking questions for Grade 10.



04 | Language

e
Write a short 150-word moral story for Grade 4 with a clear beginning–middle–end. At the end, give 5 new vocabulary words (with meanings) + 2 comprehension questions.”



05 | Arts/Creativ



e

Suggest an attractive poster idea for World Environment Day for Grade 7. Provide 3 catchy slogans, color theme suggestions, and simple drawing ideas.

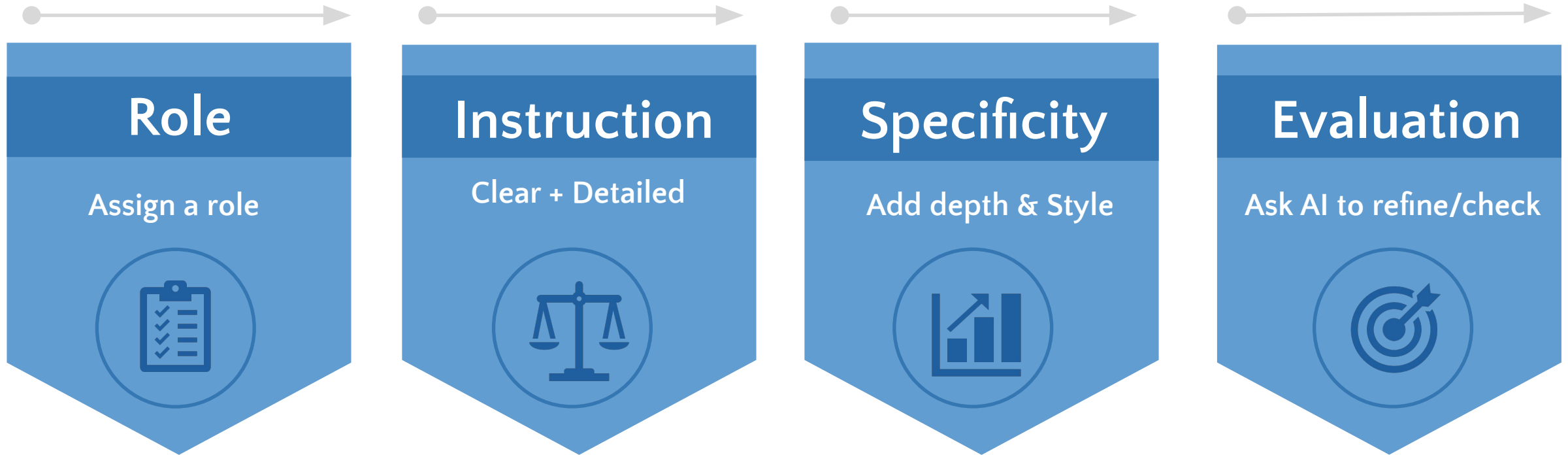
PROMPTING FRAMEWORK

R

I

S

E



Example:

You are a Grade 6 science teacher. Create a 40-min lesson plan on Water Cycle: objectives, examples, activity, quiz, homework (NCERT aligned).

Subject- wise Prompt Case Studies

M



Maths

HOTS in Algebra
with solutions

S



Science

Role-play activity
on Parts of Plant

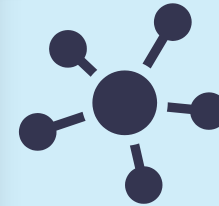
S
S



Social Science

Mughal Empire
timeline →
infographic +
quiz

L



Language

Translate Hindi
poem into simple
English

A



Arts

3 sustainable art
project ideas

Challenges

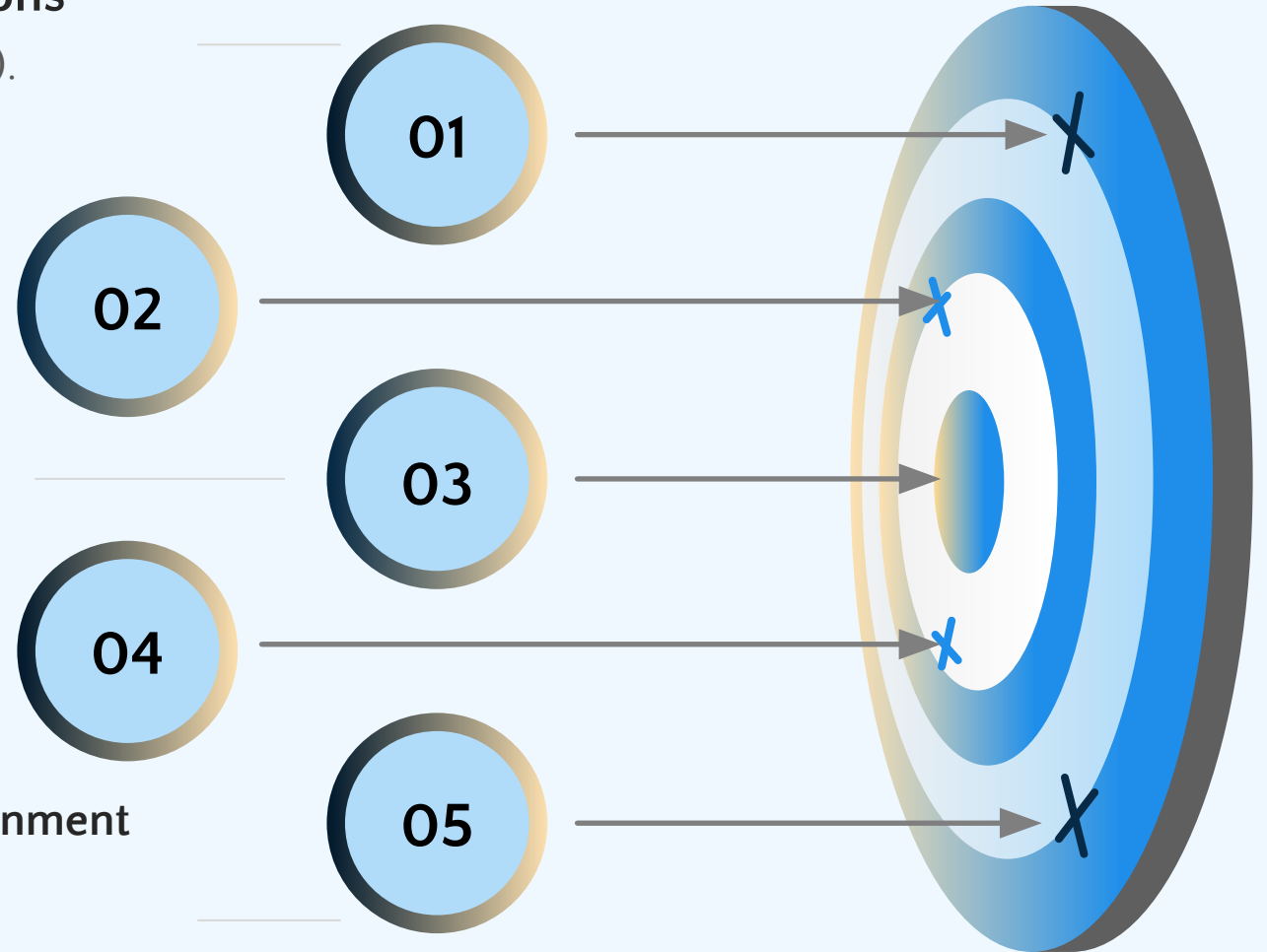
AI hallucinations
(Misinformation).

Digital Divide
Devices/connectivity

Overdependence
Passive teaching risk

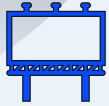
Teacher need
training & support

Curriculum alignment
essential



Future-ready Classrooms with AI

1



Adaptive
learning
dashboards

2



Real-time
language
translation

3



AI tutor for
homework
help

4



Virtual
Science labs

5



Data-driven
dashboards
(VSK)

Implementation & Future Roadmap



Vidya Samiksha Kendra (VSK):

Data-driven governance & monitoring.

India AI & NITI Aayog:

National AI strategy aligned with NEP 2020 skilling.

PHASE 1

PHASE 2

PHASE 3

NCERT & CIET Initiatives:

DIKSHA, ePathshala, PM eVidya, teacher capacity building, AI research.

Key Takeaways

01

AI = Teacher's assistant,
not replacement

03

Start small
experiment scale



02

Prompting = new
literacy for teachers

04

Teacher creativity + AI
efficiency = engaging
learning

Thank You

Every Accomplishments start with a decision to
“TRY”