

A reform model for education

Solve the skills shortage at the root — education that carries earlier and leaves no one behind.

A nation's prosperity rests on skilled people, yet the skills shortage grows while school slows the pipeline instead of speeding it. This model re-divides the work: the best explanation is recorded once by teachers and reaches every child identically; an AI takes over grading and questions; and a human in the room provides motivation and catches the learners the system alone would miss. The result: the same quality for all, less wasted teacher time, and learners who become capable sooner.

DIFFERENT PROBLEMS — ONE SHARED ROOT

Inequality. Postcode and budget decide the quality of a child's education; the disadvantaged child cannot close that gap alone.

Teacher shortage. Too few, overloaded, often changing; marking quality falls under load.

Waste. The same material is re-explained, by hand, at every school every year; talent stays bound to repetition.

No individual feedback. One teacher cannot answer thirty children — or mark thirty papers — with equal, immediate care.

Skills shortage & ageing workforce. The economy needs qualified people sooner; ever fewer contributors carry the pensions.

Slow retraining. Re-qualifying takes too long — exactly when whole occupations are changing.

Different as they look, they share one root: a system in which a scarce human must teach, grade and mentor at the same time. So one move is enough.

ONE MOVE — AND WHAT IT FIXES

Record the best teaching once (teachers, identical for all) and give the AI the grading, feedback and questions (reliable, instant, tireless), while a companion in the room motivates and catches. This one step eases every problem above: **equal access** (the same first-rate lesson regardless of location or budget), **individual feedback for all** (every piece marked instantly and exactly), **teachers relieved and repurposed** (freed from repetition, moved to mentoring), **skilled people sooner**, a **lighter pension/tax burden**, and **faster retraining** on the same adaptive engine.

THE DIVISION OF LABOUR — THREE ROLES

Recorded teaching

HUMAN · NOT IN DOUBT

The best available explanation, filmed or written once, identical for every child. The teaching stays human; only its delivery scales.

The AI core

PROVEN · RUNS TODAY

Instant, criteria-based grading of every piece; answers to questions; adaptive practice — the same care for the first and the thirtieth, without fatigue or bias.

The companion

VISION AT SCALE

A present adult for supervision, motivation, and catching the child who falls behind for reasons outside the data.

Stated plainly: the grading-and-question core is proven and runs today (see the companion document). Institutional deployment and further subjects are *vision* — a proposal to be tested, not a claimed result.

THE PROOF — A WORKING PRODUCT, IN USE

The central mechanism is not speculative. An AI platform for German as a foreign language (A1–C1, help in several first languages) grades work, answers questions and runs adaptive practice today. Grading a real student's email, on three levels at once:

ONE REAL LEARNER'S GERMAN EMAIL · GRADED IN SECONDS

- | | |
|---------------------------|--|
| 1 — Score per criterion | Task 4.0 · Coherence 3.0 · Vocabulary 4.0 · Grammar 1.5 (of 5, half-points, model answer, mild/strict) |
| 2 — Corrected in the text | Hallo an Alle → Liebe Kolleginnen und Kollegen · nicht Geld sondern Zeit → nicht Geld, sondern Zeit · mehr produktiver → produktiver |
| 3 — Why, and what next | The reason for each mark, plus the exact step: <i>for +1 point, practise plural adjective endings; put the finite verb in second place.</i> |

Instant, rule-based, identical for every learner. No teacher can hold this depth across 25–30 papers — the AI grades the 28th as carefully as the first, without fatigue and without drift.

WHERE THE REFORM BEGINS — THE PILOT

Test the model where need, motivation and an external yardstick meet: adult language learning for newcomers. One semester (~12 weeks). A pilot group learns via Crosshire Learn in a supervised setting on locked single-purpose devices, with a human companion — measured against a comparable, conventionally taught group on a shared CEFR exam. **Measured:** learning success · equality of opportunity (decisive — reported in either direction, so it registers harm not only success) · cost per learner · the combination question. **Safeguards:** a staffed system not a device hand-out; a responsible adult present; locked on-site devices; infrastructure as a named budget line; honest measurement; and no teacher fired — repurposed from lecturing to mentoring.

THE EXPANSION — FROM LANGUAGE TO THE CORE (VISION)

If the pilot carries, the same engine takes other content — the effort is in the content, not the technology: more languages; rule-based core subjects (mathematics, the sciences, computing, where recorded teaching and AI grading fit at least as well); literacy and vocational courses; and the hardest locations, where teacher shortages and quality gaps are worst. With the efficiency gained, a curriculum can go deep on a few core subjects rather than skim many — deeper mastery that also lowers what employers must re-teach.

THE ASK

A partner site (one or two courses/cohorts) for a semester-long pilot; agreement on the shared exam and measurement plan; a modest infrastructure budget (locked devices, internet, one companion). The platform is built and in use — the essential development cost is already borne. In return: a robust, externally comparable answer to whether AI-supported teaching with human companionship can raise quality, equality and reach — at limited, reversible scale, on a working product rather than a concept.