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MOODLE 5.2 · NATURAL LANGUAGE · LLM ENHANCED · 2026

Metro Moodle 5 AI Enhanced Dossier

Büchner Metro 5.0 (2023 baseline) → OCA-I Enhanced AI map

Moodle API · Python · LLMs · talktomood.com · adaptivelearn.es

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<https://oca-i.net/mapa-metro-moodle/>

July 2026

Concept & integration architecture: **Díaz Pablo** · OCA-I.NET

Executive summary

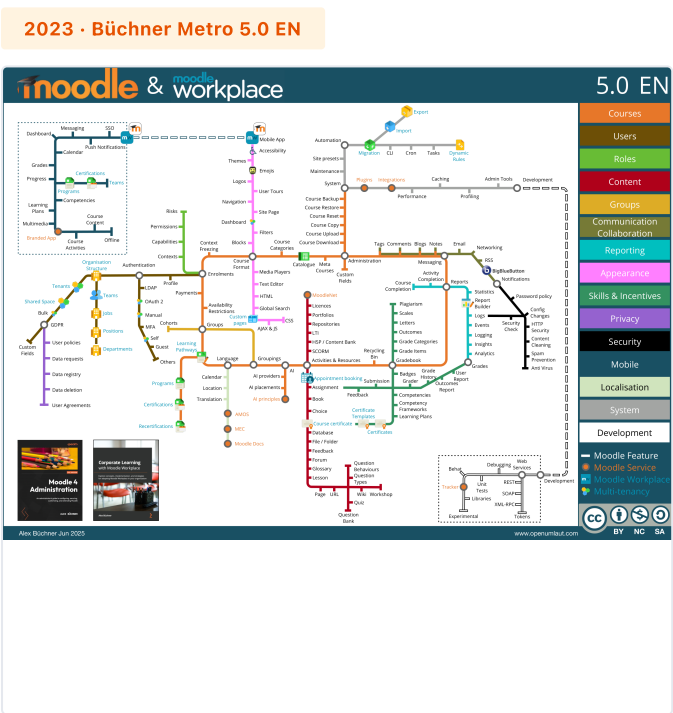
How many services, plugins, and admin hours does it take to run Moodle well?

Moodle has decades of **robust security architecture** — capabilities, SSO, GDPR, auditable API tokens. The REST API turns that strength into real **accessibility in natural language**: imagine managing Moodle in natural language — no more clicking through 8 screens for one grade, forum thread, or enrolment.

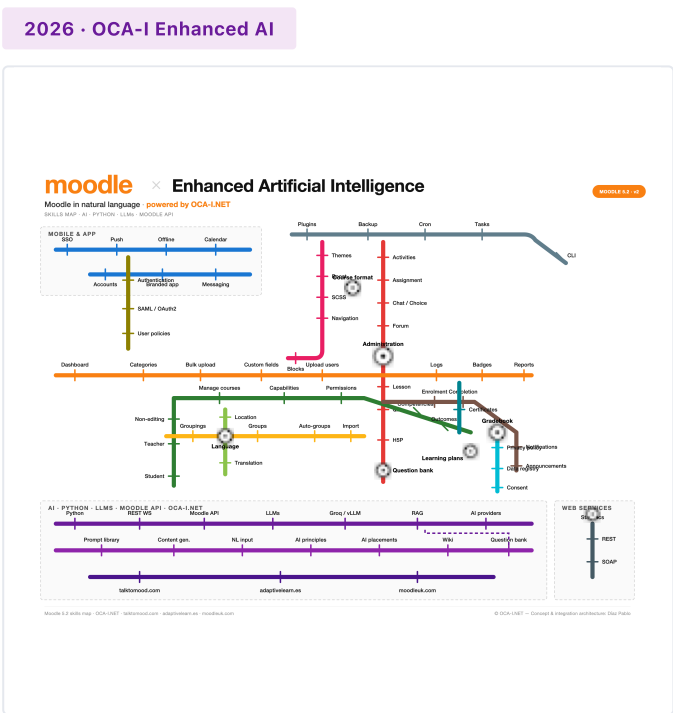
This dossier compares two metro maps. On the left: **Moodle & Moodle Workplace 5.0 EN** by Alex Büchner (openumlaut) — the 2023 structural baseline with 15 admin lines and an early AI providers branch. On the right: the **OCA-I Enhanced Artificial Intelligence** map for **Moodle 5.2 · 2026** — same topology, but the bottom third is rewired for Python, Moodle REST API, LLMs, RAG, and live domains (talktomood.com, adaptivelearn.es, moodleuk.com). Every stop below includes plain-English notes and line lore.

Live deployments — adaptivelearn.es · talktomood.com · pymood.com

Map evolution · 2023 baseline → 2026 enhanced



Alex Büchner · openumlaut · Moodle & Workplace 5.0 skills map (PDF source)



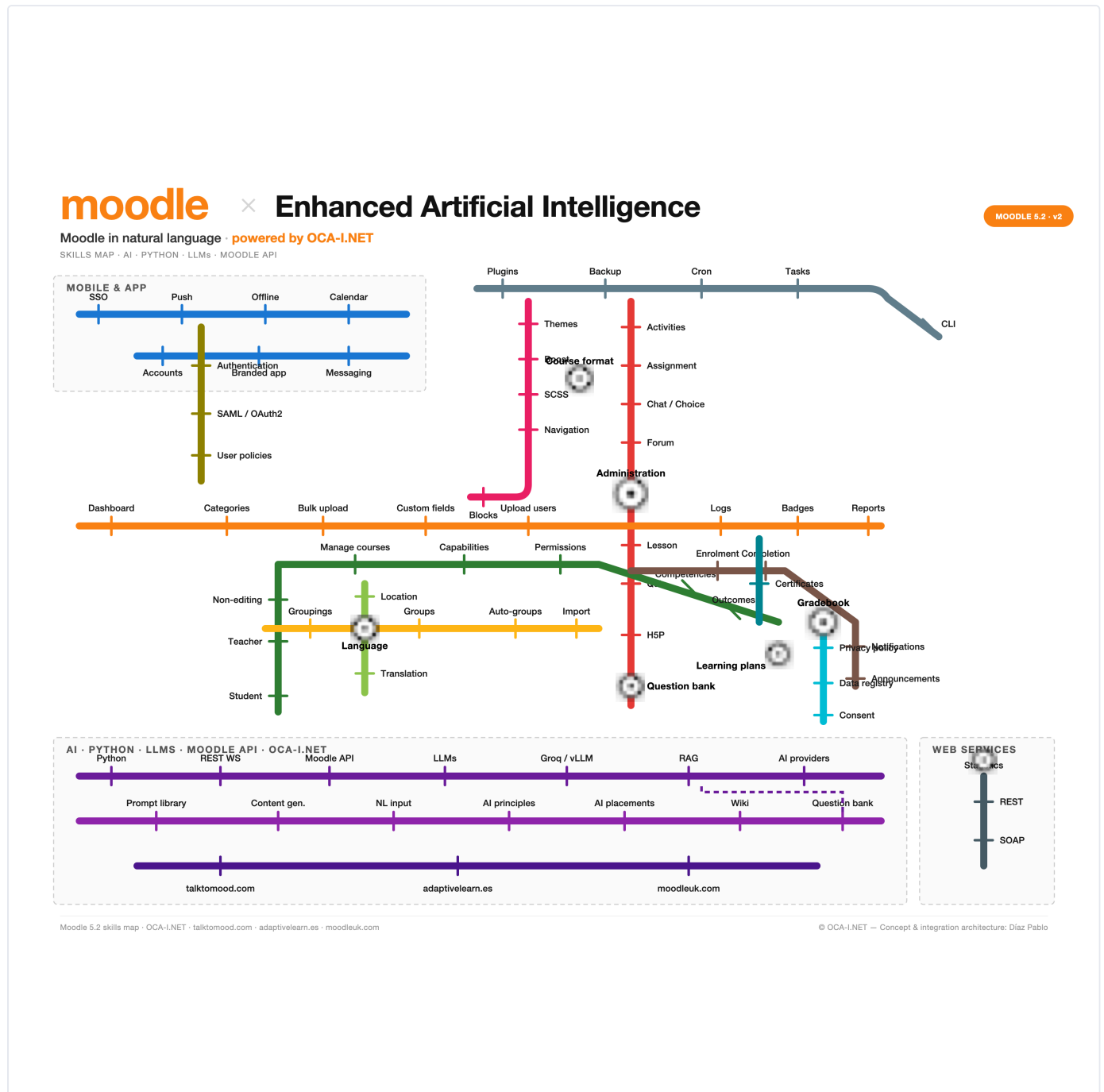
Enhanced Artificial Intelligence v2 · Moodle 5.2 · powered by OCA-I.NET

2023 Büchner line / zone	2026 OCA-I enhanced reading
Büchner baseline (2023 PDF)	Alex Büchner's Moodle & Moodle Workplace 5.0 EN skills map — 15 coloured admin lines, AI providers branch, Web Services box. The structural reference before AI-native wiring.
AI providers branch → purple spine	Büchner's orange AI branch (providers · placements · principles) becomes three parallel purple lines: Python · REST · Moodle API · LLMs · RAG.

2023 Büchner line / zone	2026 OCA-I enhanced reading
Web Services box	REST · SOAP · tokens in the Development dashed box are now a vertical terminal feeding talktomood.com and pymood.com.
Content red line	Activities · Assignment · Forum · Quiz · Question bank — unchanged topology; AI placements inject summarisation and question generation at each stop.
Reporting teal line	Logs · Analytics · Report builder on Büchner map → orange Reports stop plus dashed connector Question bank → RAG.
Mobile dashed inset	SSO · Push · Offline · Branded app — promoted to a dedicated blue Mobile & App box at the top of the 2026 map.
Natural language promise	"Moodle in natural language" tagline from the 2023 concept poster is now NL input · Content gen. · talktomood.com on the bottom purple lines.
Live campuses (2026)	talktomood.com · adaptivelearn.es · moodleuk.com appear as domain stops on the darkest purple line — production endpoints, not diagram fiction.

Enhanced Artificial Intelligence — full 2026 map

Moodle in natural language · powered by OCA-I.NET. Three purple lines (AI stack · features · live domains), six interchange hubs, dashed connector Question bank → RAG.



Source SVG: docs/moodle-metro-ai/moodle-enhanced-ai-2026-reference.svg

Interchange hubs

Double-circle stations — plan Moodle API tokens and AI placements at these transfers first.

Administration

Grand central interchange — every coloured line crosses here. Site config, course settings, AI provider keys.

Example Enable AI providers under Site administration, then set placements for editor and course blocks.

Course format

Layout hub where teachers arrange sections, blocks, and the AI Chat block on the course page.

Example Weekly format + AI Chat block beside module summaries.

Gradebook

Cruce Reporting · Teaching · Learner — competencies, outcomes, certificates converge here.

Example «Which students are below 60% on Quiz 2?» via talktomood.com natural language.

Question bank

Reusable assessment items — dashed connector to RAG on the AI stack line.

Example AI drafts questions into the bank; RAG indexes them for tutor context.

Language

Translation and locale — light-green vertical through Groupings and orange Dashboard line.

Example AI Translate placement + filter_multilang heritage on multilingual campuses.

Web Services

REST / SOAP terminal — tokens bridge Moodle to Python agents and external LLM orchestration.

Example Dedicated service token for pymood.com calling core_course_get_contents.

Station guide & lore

What each stop does in natural English, and how it evolved from the 2023 Büchner baseline.

● AI · Python · LLMs · Moodle API

Three parallel purple lines at the bottom — the intelligence engine of the 2026 map.

Python

Runtime for pymood.com agents, LangChain tools, and campus automation scripts.

Lore Lore: not on Büchner map — OCA-I adds the developer express under the LMS.

REST WS

Moodle Web Services over HTTPS — the protocol every agent speaks.

Lore Lore: grows from Büchner's REST stop in the Development box.

Moodle API

core_* functions exposed via tokens — courses, users, grades, completions.

Lore Lore: the API orange line from early Moodle AI posters, now explicit.

LLMs

Large language models behind providers — GPT, Claude, Llama, Gemini.

Lore Lore: successor to the 2023 LLM → Generative AI spine.

Groq / vLLM

Low-latency inference for streaming chat and batch generation.

Lore Lore: fast lane when cloud APIs are too slow for live tutoring.

RAG

Retrieval-augmented generation over course files, glossaries, question banks.

Lore Lore: dashed link from Question bank hub — grounded answers, not hallucinations.

AI providers

Site-wide LLM backend configuration in Moodle 5.2.

Lore Lore: direct upgrade of Büchner's AI providers stop.

Prompt library

Reusable prompt templates for teachers and placements.

Lore Lore: from 2023 Prompt Library → Prompt Template concept line.

Content gen.

Summaries, quiz drafts, rubrics from natural-language prompts.

Lore Lore: absorbs Summarise and Content creator stops from early AI maps.

NL input

Natural-language search and configuration in the Moodle UI.

Lore Lore: the headline promise — Moodle in natural language.

AI principles

Responsible-use copy shown to teachers and students.

Lore Lore: Büchner's AI principles stop, now enforceable campus policy.

AI placements

Where AI surfaces: editor, blocks, activities.

Lore Lore: policy-driven surfaces replacing scattered plugin hooks.

talktomood.com

External NL campus assistant — ES · EN · FR · DE.

Lore Lore: production OCA-I deployment; not on the 2023 Büchner PDF.

adaptivelearn.es

Live Moodle campus with AI integrations enabled.

Lore Lore: reference deployment for EdTech School programmes.

moodleuk.com

UK-facing Moodle community and hosting partner stop.

Lore Lore: regional endpoint on the 2026 domain line.

● AI in Activities

Red vertical spine — where generative AI meets teaching modules.

Activities

Module hub — forum, quiz, assign, H5P, etc.

Lore Lore: same red assessment express as Büchner Content line.

Assignment

Submissions and feedback — AI rubric drafts.

Lore Lore: teacher workflow stop on every Moodle AI diagram.

Chat / Choice

Synchronous chat and quick polls.

Lore Lore: lightweight stops before heavy assessment.

Forum

Async discussion — summarise and moderate with AI.

Lore Lore: pink Translate → Forum arc from 2023 posters converges here.

Lesson

Branching content with embedded checks.

Lore Lore: green resource line stop from early maps.

Quiz

High-traffic interchange with Question bank hub.

Lore Lore: AI question generation's busiest platform.

H5P

Interactive HTML5 — tracking into gradebook.

Lore Lore: Büchner H5P/Content bank stop, AI-enhanced authoring.

● Data & Users

Orange main line — dashboard to reports across the campus.

Dashboard

Personalised home after login.

Lore Lore: learner journey start on every metro map.

Categories

Programme and department taxonomy.

Lore Lore: Site → Category → Course brown vertical, flattened.

Bulk upload

Mass user and enrolment operations.

Lore Lore: enterprise admin stop from Büchner Users line.

Custom fields

Extra metadata for integrations and RAG tagging.

Lore Lore: hidden station consumed by API agents.

Upload users

CSV and manual user creation.

Lore Lore: admin counterpart to bulk upload.

Logs

Audit trail — including AI placement actions.

Lore Lore: grey Analytics → Logs spine from 2023 ops line.

Badges

Gamification credentials on the skills line.

Lore Lore: Büchner Skills & Incentives branch.

Reports

Built-in and custom reporting.

Lore Lore: teal Reporting line terminal.

● Smart Management · Roles

Green L-shape — roles, capabilities, competencies.

Student / Teacher / Non-editing Role archetypes on the vertical spur. Lore Lore: who may trigger AI is decided here.	Manage courses Course creation and duplication rights. Lore Lore: teacher green line from Büchner Roles.
Capabilities Fine-grained permissions per context. Lore Lore: can this role configure AI providers?	Permissions Role overrides at course and module level. Lore Lore: guard rail before NL agents get write access.
Competencies Skills framework linked to gradebook. Lore Lore: teal competency line from Büchner map.	Outcomes Measurable learning objectives. Lore Lore: feeds AI rubric alignment.

● Mobile & App · System · Auth

Blue mobile box, grey system line, olive auth — infrastructure layer.

SSO / Push / Offline Mobile app identity and notifications. Lore Lore: Büchner Mobile dashed inset, promoted to top box.	Branded app Institutional Moodle app skin. Lore Lore: Web → Mobile → Desktop UI terminal from 2023.
Plugins / Cron / Tasks / CLI System maintenance spine. Lore Lore: grey ops line — reliability under AI load.	Authentication / SAML / OAuth2 Corporate IdP login. Lore Lore: olive Users line from Büchner PDF.
Themes / Boost / SCSS Visual layer — magenta vertical. Lore Lore: Appearance pink line on Büchner map.	

● **Groups · Language · Enrolment · Privacy**

Yellow groups, light-green language, brown enrolment, cyan privacy.

Groupings / Groups / Auto-groups Cohort segmentation inside courses. Lore Lore: yellow Groups line — AI tutors respect group boundaries.	Location / Translation Locale and AI translate at Language hub. Lore Lore: Localisation line + 2023 Translate stop.
Enrolment / Completion Who is on the course and when they finish. Lore Lore: gateway before AI sees the right learners.	Notifications / Announcements Campus comms on the brown spur. Lore Lore: Communication brown line terminals.
Privacy policy / Data registry / Consent GDPR layer for AI data processing. Lore Lore: purple Privacy line from Büchner PDF.	Certificates Teal connector into gradebook hub. Lore Lore: Skills & Incentives certification branch.