

LTI and Survey in ILIAS: Current Current Status and Future Roadmap

SURLABS maintains two ILIAS core components. This is where they stand, and where they are going.

Jesús Copado Mejías · introduction and closing

Abraham Morales Rodríguez · Survey

Saúl Antonio Díaz Díaz · LTI



INTRODUCTION

Two core components, components, one maintainer

SURLABS maintains the LTI and the Survey components of the ILIAS core and contributes the work upstream. Today the people who write that code report on it.



Survey

ILIAS CORE: SURVEY COMPONENTS

Abraham Morales Rodríguez

Taken over in 2026. Backlog, code consistency and the road to Kitchen Sink components.



LTI

ILIAS CORE: LTI COMPONENTS

Saúl Antonio Díaz Díaz

From manual setup to a complete LTI 1.3 integration in ILIAS 11.4, and the ILIAS 12 rework.



Then two minutes for your questions, and a word from us on how this work gets funded.

01

ABRAHAM MORALES RODRÍGUEZ

Survey: making progress visible

Maintenance, consistency, and a clear path forward.

Survey: making progress progress visible

This is not about one large new feature. It is about steady, valuable progress in areas that are easy to overlook.



Then

HANDOVER IN 2026

- Components largely unported unported to the Kitchen Sink Sink
- Long-standing and overlooked tickets
- Mixed typing across the codebase
- A steady stream of upstream fixes



Now

FOCUSED ATTENTION

- Backlog reviewed and reduced
- Fixes contributed to release_11 and trunk
- 59 pull requests for Survey
- 100 % of classes strict-typed



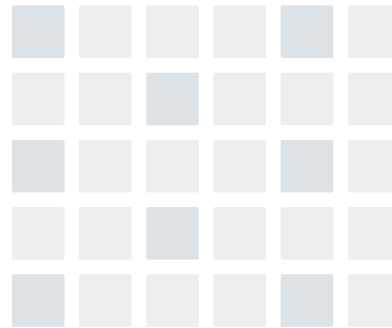
Next

A CLEAR PATH FORWARD

- Survey components refactored into Kitchen Sink Sink components
- Clearer, reusable building blocks
- Priorities set with the community

Revisiting long-standing standing tickets

Maintenance work is user-facing work.



Question Pool import failing after an ILIAS 11 export

Invalid LOM metadata (rights without general). Fixed at component level, ILIAS#11647 merged in release_11.



Reminder cron not initialising the repository tree

Fixed together with the strict-types migration in trunk.



Question Pool evaluation ignoring the finished_id filter

Fixed together with the strict-types migration in trunk.

ACCUMULATED BACKLOG

REVIEWED, ADDRESSED, UPSTREAM

- Long-standing and overlooked tickets reviewed and addressed
- Less accumulated maintenance burden
- Better day-to-day experience for people who use Survey every week

Maintenance work is user-facing work.

A more consistent Survey Survey codebase

A global refactoring across Survey and SurveyQuestionPool classes, contributed upstream.



59

pull requests for Survey

Bug fixes, refactoring and upstream integration work over the year.

More consistency

Expectations in the code are explicit; type errors surface early instead of silently.

100 %

%

of Survey classes use `declare(strict_types=1)`
`declare(strict_types=1)`

94 remaining classes migrated in six phases. ILIAS#12016
ILIAS#12016 merged into trunk on 2026-09-02.

Easier long-term maintenance

A stronger foundation for the next stage: Kitchen Sink
Kitchen Sink components.

What the feature requests tell us about community needs

We reviewed the open Survey feature requests requests and their comments before setting setting priorities. Five themes come up again and again and again.



Usability

Preview with mode info and pagination; pagination; clearer top top actions.



Accessibility

Accessible KS bar charts; sequential navigator for questions.



UI modernisation modernisation

Kitchen Sink components instead of instead of legacy tables and forms.



Question handling

Question pools stay; a Cloze question type is on the table.



Results

Chart export, complex matrix rendering, competence data for analysis.

TWO THINGS THE COMMUNITY ASKED US TO KEEP



Survey Question Pools

Used across whole universities; the "abandon" proposal met clear opposition. They stay.



Per-survey completion e-mails

Institutions run course-creation workflows on them. them. They stay.

Next step: Kitchen Sink Sink components

An incremental path: improving what exists exists while preparing Survey for the next stage. stage.



- Refactor Survey components into Kitchen Sink components
- Clearer and reusable building blocks, easier for contributors to understand
- Feedback, real use cases, code reviews and contributions are welcome

Build the next layer of Survey together.

02

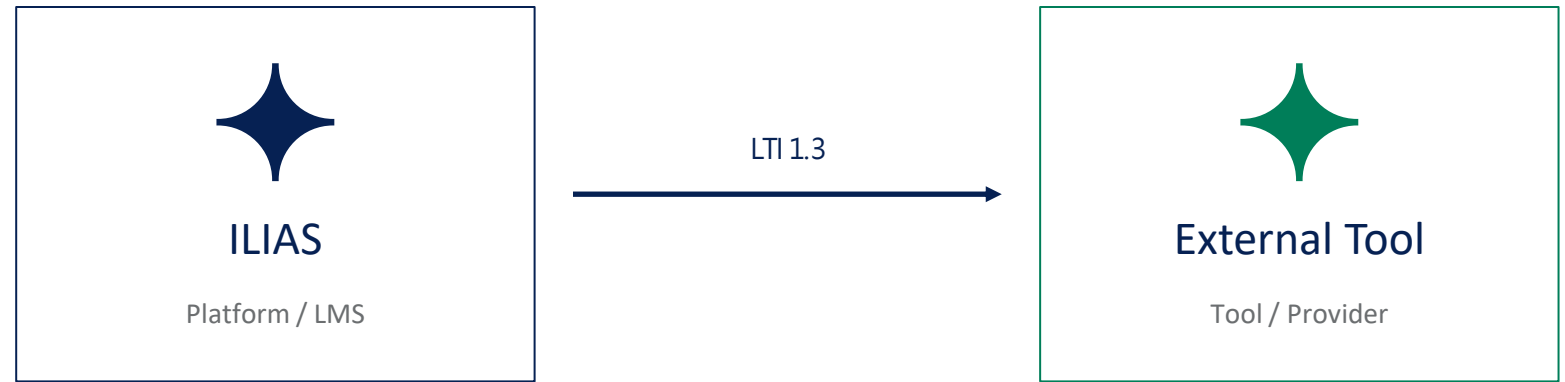
SAÚL ANTONIO DÍAZ DÍAZ

LTI 1.3 in ILIAS: from launch to integration

What changed in ILIAS 11.4, and where ILIAS 12 takes it.

LTI connects learning platforms and external tools

A 1EdTech standard. LTI 1.1 is legacy and obsolete; everything shown today is LTI 1.3.



 **LTI 1.1**
legacy

 **LTI 1.3**
current standard

 A Platform consumes a Tool. ILIAS can be both: it integrates external tools in its courses, and it can be consumed by other platforms.

ILIAS 10: LTI works, but tool registration is manual

Administrators exchange and type URLs, keys, client IDs and deployment data on both sides. It works, but it needs technical coordination and leaves room for errors.

Authentication

LTI Version ☒ Version 1.3

Login URL *

Initiate Login URL *

Redirection URI *

Public Key Type * ☐ RSA-Key ☒ URL (Json Web Token)

URL

Support for Deep Linking ☒ Content URL

Advanced Grading Services ☒ The LTI tool must offer 'Assignment and Grade Services'.

If the tool was created without dynamic registration, the following data must be entered for the tool to run.

Platform ID:	https://lti.ilias10.com
Client ID:	22kAVsEhP8jwtpD
Deployment ID:	116
Public keyset URL:	https://lti.ilias10.com/lticerts.php
Access token URL:	https://lti.ilias10.com/ltitoken.php
Authentication request URL:	https://lti.ilias10.com/ltiauth.php



URLs



Keys and JWKS



Client and
deployment IDs



Platform endpoints
endpoints

Manual LTI 1.3 tool configuration in ILIAS 10: every field entered by hand, on both systems.

ILIAS 11.4: three new LTI LTI 1.3 capabilities as a Platform

Released on 3 September 2026. Together they
they turn a manual LTI connection into a
complete integration workflow.



1

Dynamic Registration Registration

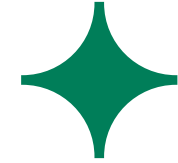
Standard registration flow
between ILIAS and the Tool.



2

Deep Linking

Select tool content from ILIAS
ILIAS and create the resource
resource link.



3

Assignment and Grade Grade Service

External tools return grades
grades to ILIAS.



ILIAS 11.4 · released 2026-09-03. ILIAS as an LTI 1.3 Platform, i.e. as a consumer of external tools.

From manual configuration to a standard registration flow

ILIAS and the Tool exchange and save the deployment data automatically. One URL instead instead of a page of fields.

A screenshot of a web form titled "Create Own Settings for Tool with Dynamic Registration (LTI 1.3)". The form has a light blue header bar with the title and a dropdown arrow. Below the header, there is a section labeled "Required" with a red asterisk. The main heading is "Create Own Settings for Tool with Dynamic Registration (LTI 1.3)". There are two input fields: "Registration URL of the Tool" with a red asterisk and a note "Note: Not every tool supports dynamic registration." below it, and "Optional Parameters" with a note "Here, for example, references to target objects in the tool can be specified." below it. A blue "Add" button is located at the bottom right of the form.

Create Own Settings for Tool with Dynamic Registration (LTI 1.3): the registration URL of the tool, and Add.



Before

Copy URLs, keys, client IDs and deployment data from one system to the other



Now

Enter the tool's registration URL; ILIAS receives and stores what it needs to create the deployment

Less friction, more consistent integrations.

Select external-tool content directly from ILIAS

The instructor opens the tool's content picker from ILIAS, chooses an activity, and ILIAS creates the LTI resource link in the course.

Content Selection

Cancel

Published content

	Add to course	Add to gradebook
Course 1	☐	☐
Coruse 2	☐	☐
Example Activity	☐	☐

Add content

Content Selection: published content of the tool, with "Add to course" and "Add to gradebook".

- 1

Open the tool's content picker from ILIAS
- 2

Choose a specific activity or resource
- 3

ILIAS creates the LTI resource link in the course course

No copying URLs, no generic links created by hand.

External tools can return grades to ILIAS

An external tool becomes part of the course learning and assessment workflow, not just a resource opened outside ILIAS.

Content	Info	Settings	Gradebook	Metadata	Permissions
Date	User	Score	Activity Progress	Grading Progress	Transmitted to ILIAS
14.08.2026 12:02	Example Student	5 / 10	Completed	The Grading Process is completed	14.08.2026 12:30

Gradebook of an LTI object: score, activity progress, grading progress and "Transmitted to ILIAS".



Assessable activities

The tool works with assignments assignments that carry a grade. grade.



Grades flow back

Score and progress are transmitted to ILIAS automatically.

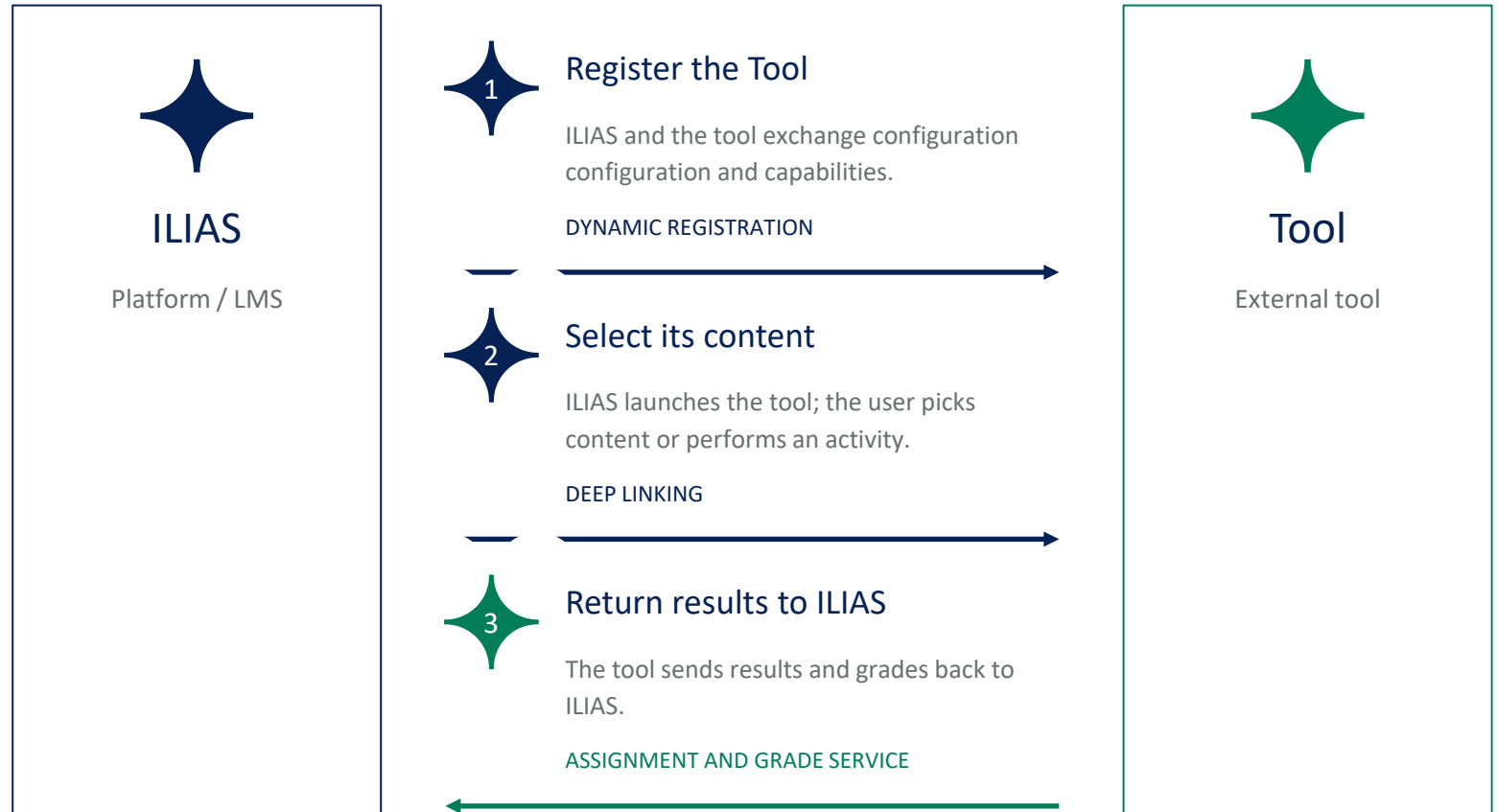


One workflow

Learning and assessment stay stay inside the ILIAS course.

One complete LTI 1.3 workflow: from launch to to integration

The three capabilities complement each other. other. This is the change: from a simple LTI launch to an integration that is useful in everyday course work.



Tested with the community, covered by an end-to-end suite, shipped in ILIAS 11

Optional slide: covers two commitments of the the published abstract. Skip it if time is short. short.



Community testing before the merge

- Dedicated ILIAS 11 platform for testers (lti.ilias11.com)
- Coordinated by the Technical Board; testers from DHBW Karlsruhe and KIT
- Four Mantis bugs reported and closed; merged into release_11 on 2026-07-31
- Reusable Playwright end-to-end suite: LTI 1.1 and 1.3 between two ILIAS installations, with history, logs and reports



Why ILIAS 11, and not a backport to ILIAS 10

- The corrections change launch, security and data flows: a backport is a second implementation with its own test cycle
- ILIAS 10 stays in maintenance mode and receives LTI bug fixes only
- If Deep Linking, grade passback or Dynamic Registration are on your roadmap, plan them with the ILIAS 11 upgrade

ILIAS 12: a full LTI rework, rework, as a Platform and and as a Tool

ILIAS can already act as a Tool. The rework brings that role to the same modern approach and moves ILIAS closer to LTI Advantage.



✦ Towards LTI Advantage and future certification. A direction, not a guarantee: the rework prepares the path and brings ILIAS in line with the integration capabilities of other platforms.

How we work with the ILIAS core: we build first, first, the community funds afterwards

We do not wait for a full budget before touching touching a core component. We do the work, work, put it in front of you, and then ask the the community to fund most of it.



We build

Fixes, features and refactoring go into the core first, on our own account.



You validate

Community testing, Mantis, Technical Board coordination, real real installations.



The community funds most most of it

A yearly crowdfunding campaign campaign per component, shared shared among the institutions that that benefit.

IT WORKED IN 2025



LTI 2025: Dynamic Registration was built first and funded afterwards

Two institutions, Leibniz Universität Hannover and WEKA Media, funded the 2025 LTI campaign after campaign after seeing the work. That is what made the ILIAS 11.4 capabilities you just saw possible. possible.

Two crowdfunding campaigns are open for 2026

Both estimates are closed; the allocation among institutions is open. Every contribution, large or small, counts towards the total, and the funders set the priorities.



LTI Components

LTI-ILIAS-2026

60 PD

69.600 € · 1 PD = 8 h × 145 €

WHAT IT FUNDS

- Names and Role Provisioning Service (NRPS)
- Hardening against the 1EdTech conformance suite
- ILIAS 12 rework: Platform and Tool, LTI Advantage



Survey Components

SURVEY-ILIAS-2026

30 PD

34.800 € · 1 PD = 8 h × 145 €

WHAT IT FUNDS

- Maintenance and upstream fixes
- Kitchen Sink components
- Open questions the funders decide: Survey 360, a Cloze question type



Talk to Saúl and Abraham this week, or write to info@surlabs.com. Any share of the total helps, the funders set the priorities.

Thank you. Questions?

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Crowdfunding 2026: [lti-ilias-2026](#) · [survey-ilias-2026](#)

Working fork; contributions travel upstream

Dos Hermanas (Sevilla), Spain

