



From learning to visibility: DIAMETER releases SEO plugin for ILIAS LMS

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The DIAMETER project is proud to announce a significant milestone in its mission to create a unified and sustainable digital infrastructure: the launch of the **first SEO plugin** for **ILIAS LMS**. This strategic upgrade turns DIAMETER's educational platform, **DIAdemia**, into a powerful tool for both **learning** and **communication (external and internal)**, enhancing the visibility of the project's work and impact across the web.

A dual-purpose platform: learning and communication

At the heart of this development is **DIAdemia**, DIAMETER's ILIAS-based Learning Management System (LMS). DIAdemia was initially selected to host comprehensive training on circular manufacturing, digital tools, and sustainable innovation. However, in a groundbreaking move, DIAMETER has expanded DIAdemia's role to power the **public-facing website** of the project, effectively combining education and outreach into one platform.

In addition to its educational and public communication functions, **DIAdemia** is also used for **internal communication** among project partners. The platform serves as a secure and centralized space where partners can share updates, collaborate, and manage project-related tasks. This fosters structured collaboration and ensures that all project-related information is easily accessible and organized in one place, further enhancing efficiency and coordination across the consortium.

This **innovative decision** reduces technological fragmentation and ensures consistent messaging across all project communications. With this unified approach, DIAMETER strengthens its digital presence while maintaining the integrity of its educational mission.

What the SEO Plugin does

ILIAS, a powerful LMS, was not initially designed for public web indexing. To address this gap, DIAMETER has developed a custom **SEO plugin** that optimizes the platform for search engines, making the public sections of the website, such as **news updates**, **institutional content**, and **project highlights**, indexable and structured for maximum visibility.

Key features of the plugin include:

- **SEO-friendly URLs:** Readable and optimized for search engines
- **Custom meta titles and descriptions:** Tailored for better search engine ranking
- **Canonical tags and index/follow controls:** Ensures correct indexing
- **Auto-generated XML sitemap:** Automatically refreshed via cron jobs
- **Redirect management and permalink version tracking:** Enhances site navigation and SEO
- **Noindex, nofollow metadata:** Protects non-public pages from being indexed

The result is a platform that supports both educational delivery and both external and internal communication while maintaining a secure, open-source infrastructure.





Moving toward a coherent digital ecosystem

While the private learning environment within DIAdemia remains untouched, the public-facing sections now resemble a lightweight **Content Management System (CMS)**. This move brings multiple benefits to DIAMETER:

- **No platform duplication:** A single platform serves both educational and communication needs
- **Continuity across functions:** Seamlessly links education, dissemination, and visibility
- **Sustainability:** A unified, open-source infrastructure designed for long-term use

This release represents an important step toward a flexible, manageable digital ecosystem, reinforcing DIAMETER's commitment to sustainability and open technologies.

Looking ahead: future enhancements

The launch of the SEO plugin is just the beginning. DIAMETER is committed to further enhancing DIAdemia's capabilities, with future developments including:

- Improved editorial interface for content authors
- Integration with tools like **Google Tag Manager**
- Use of **structured data** (schema.org JSON-LD) to enable rich snippets in search results

These upgrades will help DIAMETER's digital ecosystem remain future-ready, transparent, and aligned with the project's long-term goals.

With this innovative SEO plugin, DIAMETER is not only advancing **additive manufacturing** and **circular economy** research but also ensuring that its educational content reaches a wider, global audience.

For more information about the DIAMETER project, visit www.diameter-eu.org.

About DIAMETER

The **DIAMETER** project is an innovative initiative funded by the European Union's **Horizon Europe** program, focused on advancing circular manufacturing through **additive manufacturing (AM)** technologies. Led by **Sabanci University**, DIAMETER brings together a diverse consortium of 18 partners including leading academic institutions, research organizations, and industry leaders. The project aims to reduce the **environmental impact** of the metal manufacturing sector by developing **AI-assisted tools** and **digital platforms** that promote **circular economy** principles such as **remanufacturing, refurbishing, repairing, and recycling**. DIAMETER supports the **EU Green Deal** by enabling sustainable, resource-efficient production processes, and provides educational tools to upskill the workforce in cutting-edge **Industry 4.0** technologies. The project is set to transform manufacturing practices by creating solutions that contribute to a **greener, circular future** for European industry.

Contact:

OC Group - DIAMETER Communication & Dissemination Team

Email: info@oc-group.eu

Website: www.oc-group.eu

