

HORIZON
2020

Compact, high-power, frequency-converted diode laser systems

Fact Sheet

Project Information

CoDiS

Grant agreement ID: 672196

[Project website](#) 

DOI

[10.3030/672196](https://doi.org/10.3030/672196) 

Project closed

EC signature date

25 May 2015

Start date

1 June 2015

End date

31 October 2015

Funded under

INDUSTRIAL LEADERSHIP - Leadership in enabling and industrial technologies - Information and Communication Technologies (ICT)

Total cost

€ 71 429,00

EU contribution

€ 50 000,00

Coordinated by

NORLASE APS

 Denmark

Objective

Visible lasers are of interest to a wide variety of industries, including life science, lighting, medical, laser pumping, and scientific applications. Existing laser technologies do not offer the combination of intrinsic stability, low noise, high beam quality, high power, and wavelength tuneability.

Norlase is a spin-out company set up to develop and commercialize a new class of visible lasers; tapered diode doubled lasers (TDDL), based on award-winning technology invented at Technical University of Denmark. TDDL is a unique, simple platform technology that vastly reduces cost of visible lasers for high-volume applications.

The overall objective of Norlase is to manufacture a new class of compact, reliable, low-noise visible lasers in the 1-20 W output power range providing designers of OEM equipment unique opportunities in terms of performance and cost effectiveness. The Norlase mission is to become world-leading supplier of visible continuous wave lasers in this power range.

The novel, compact laser is based on semiconductor lasers that enable low-cost, reliable products. In our targeted market segments representing a few hundred units per year for Norlase, the unit cost may be reduced drastically, i.e. a step-change cost-wise. For OEM customers this step-change expands existing markets and also opens new market opportunities. Hence, Norlase provides a huge business opportunity to establish a leading laser manufacturer within Europe thriving on a technology (semiconductors), where Europe holds a strong and world-leading position.

The objectives of CoDiS are to:

- * map out market segments in a detailed business plan, where Norlase makes a step-change cost-wise ensuring sustainable growth of the company, and prepare activities for Phase 2 project,
- * complete the design phase for electronics, control software, and user interface,
- * elaborate the strategy for further reducing the component count allowing further cost reduction, thus enhance the business opportunity.

Fields of science (EuroSciVoc)

[natural sciences](#) > [computer and information sciences](#) > **[software](#)**

[engineering and technology](#) > [electrical engineering, electronic engineering, information engineering](#) > [electronic engineering](#) > **[control systems](#)**

[medical and health sciences](#) > [clinical medicine](#) > **[dermatology](#)**

[natural sciences](#) > [physical sciences](#) > [electromagnetism and electronics](#) > **[semiconductivity](#)**

[natural sciences](#) > [physical sciences](#) > [optics](#) > **[laser physics](#)**



Programme(s)

[H2020-EU.2.1.1. - INDUSTRIAL LEADERSHIP - Leadership in enabling and industrial technologies - Information and Communication Technologies.\(ICT\).](#) MAIN PROGRAMME

[H2020-EU.2.3.1. - Mainstreaming SME support, especially through a dedicated instrument](#)

Topic(s)

Call for proposal

[H2020-SMEInst-2014-2015](#)

[See other projects for this call](#)

Sub call

H2020-SMEINST-1-2014

Funding Scheme

[SME-1 - SME instrument phase 1](#)

Coordinator



NORLASE APS

Net EU contribution

€ 50 000,00

Total cost

€ 71 429,00

Address

FREDERIKSBORGVEJ 399

4000 ROSKILDE

 **Denmark** 

SME 

Yes

Region

Danmark > Sjælland > Østsjælland

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Last update: 11 August 2022

Permalink: <https://cordis.europa.eu/project/id/672196>

European Union, 2025

