

The worldwide first exoskeleton for the creation of ergonomic, age-neutral and low-fatigue workplaces in industry and for the reduction of physical strains in the ageing workforce

**HORIZON
2020**

The worldwide first exoskeleton for the creation of ergonomic, age-neutral and low-fatigue workplaces in industry and for the reduction of physical strains in the ageing workforce

Fact Sheet

Project Information

Chairless Chair

Grant agreement ID: 822096

[Project website](#) 

DOI

[10.3030/822096](https://doi.org/10.3030/822096) 

Project closed

EC signature date

7 August 2018

Start date

1 September 2018

End date

31 August 2020

Funded under

INDUSTRIAL LEADERSHIP - Innovation In SMEs

Total cost

€ 2 341 250,00

EU contribution

€ 1 638 875,00

Coordinated by

NOONEE GERMANY GMBH



Germany

This project is featured in...



Objective

noonee was founded in 2014 as spin-off from the robotics lab of ETH Zurich. The mission of noonee is to develop and distribute exoskeleton-like devices specifically tailored to the needs of industry. Caused by the demographic change, the European workforce is continuously ageing. This represents a huge challenge for the employment across all sectors. Since older workers are becoming a growing part of the workforce and people must work for longer, appropriate measures to improve working conditions and obtain health are becoming a main priority. Even though workers in manufacturing plants are constantly ranked among the occupations with highest prevalence of musculoskeletal disorders, the problem of bad workplace ergonomics is still very present. With our first product, the Chairless Chair, we are directly addressing the physical needs of workers in manufacturing and processing industries. The idea is to provide lowerback support to workers that normally must stand all day long and often in awkward body postures. Through close collaboration with large automotive and manufacturing companies, the Chairless Chair was specifically tailored to fit the needs of these workers in terms of usability, health benefits and user acceptance. In parallel, the Chairless Chair helps companies to save high amounts of costs related to sick or absent workers, fluctuating performance and the establishment of age-neutral and ergonomic workplaces. Based on the present first-mover advantage and a product that perfectly fits the nerve of time, the full commercialisation of our Chairless Chair will position noonee as market leader in the segment for wearable ergonomics mechatronic devices. To achieve this goal, the fast establishment of a European and global distribution channel is foreseen. During the first 5 years of commercialisation, we expect to generate cumulative revenues of 32 million € and establish at least 37 new jobs at noonee and more than 30 new jobs at our global distributors.

Fields of science (EuroSciVoc)

[social sciences](#) > [sociology](#) > [demography](#)

[engineering and technology](#) > [mechanical engineering](#) > [vehicle engineering](#) > **[automotive engineering](#)**
[social sciences](#) > [economics and business](#) > [business and management](#) > **[employment](#)**
[engineering and technology](#) > [electrical engineering, electronic engineering, information engineering](#) >
[electronic engineering](#) > **[robotics](#)**
[social sciences](#) > [psychology](#) > **[ergonomics](#)**



Programme(s)

[H2020-EU.2.3. - INDUSTRIAL LEADERSHIP - Innovation In SMEs](#)

MAIN PROGRAMME

[H2020-EU.3. - PRIORITY 'Societal challenges](#)

[H2020-EU.2.1. - INDUSTRIAL LEADERSHIP - Leadership in enabling and industrial technologies](#)

Topic(s)

[EIC-SMEInst-2018-2020 - SME instrument](#)

Call for proposal

[H2020-EIC-SMEInst-2018-2020](#)

[See other projects for this call](#)

Sub call

H2020-SMEInst-2018-2020-2

Funding Scheme

[SME-2 - SME instrument phase 2](#)

Coordinator



NOONEE GERMANY GMBH

Net EU contribution

€ 1 638 875,00

Total cost

€ 2 341 250,00

Address

SIRNAUER STRASSE 50

73779 DEIZISAU

 **Germany** 

SME 

Yes

Region

Baden-Württemberg > Stuttgart > Esslingen

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](#) 

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European Union, 2025