

REINVENTING ROAD CONSTRUCTION

INSPIRED BY NATURE



VISIBUILT

Support and Acclaim for Visibuilt in Total 3.250.000 €

Winner

Climate Entrepreneur of the Year 2023

1,2M €

EUDP C

Visibuilt has successfully secured 1,8 M€ in soft funding from EUDP to develop the visiBIT binder, upscale production, and test with Munck Asphalt and DTU. Visibuilt receives 1,2M € until 2027.

2nd place

The Future is Fungi Award 2023

1,8M €

BII BioInnovation Institute

Visibuilt is supported by Venture Lab and Venture House with two convertible loans of 1,8M € in total.

1st place

Nordic Asphalt Research and Development 2023

250.000 €

Innovationsfonden +7

Additional 200.000 € soft-funding.

1st place

Innovative Technology Solution 2023





The asphalt industry is falling behind on climate goals. With 60% of the road infrastructure projected for 2050 yet to be constructed, this poses a significant challenge.

Asphalt is Essentially Made on a 100 Years Old Recipe



95%
rocks

+



5%
bitumen

=



100%
Bitumen asphalt

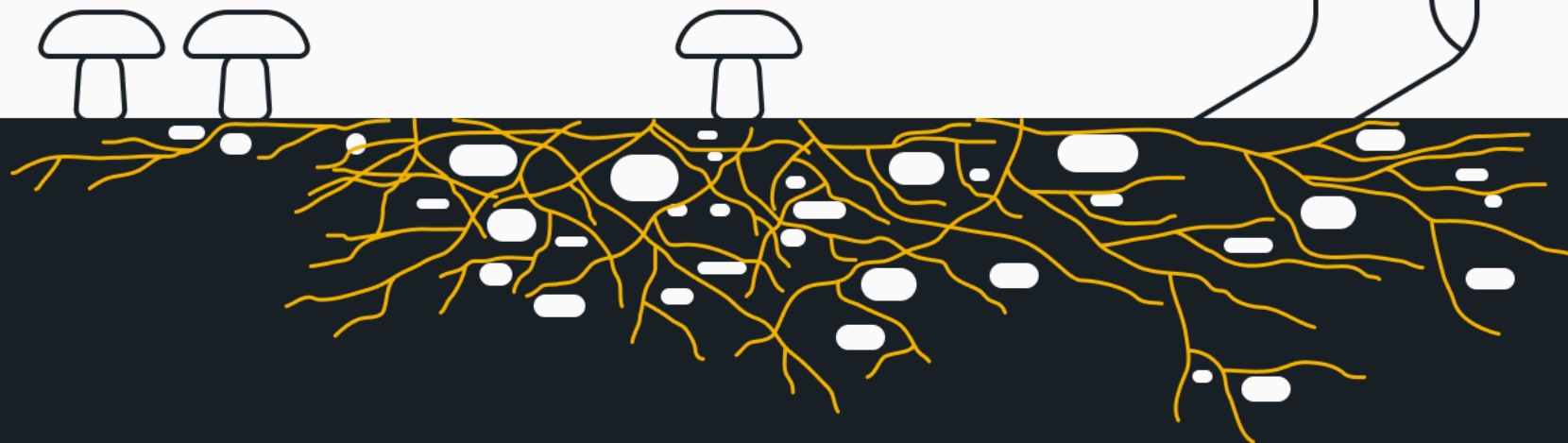
Fungi are Waiting to be Explored for Sustainable Road Construction

- Mycelium is the result of 800 mio. years of natural evolution found underneath our feet.

- Visibuilt is pioneering fungal binders for road construction for a new global export adventure.



Mycelium is the Natural Binder of Soil



Future Asphalt Materials Will be Grown From Mycelium



Asphalt aggregates



**visiBIT
mycelium binder**



**Fermentation-based
pavement**

Living Materials are the Natural Next Step



Unique Benefits:

- 1) visiBIT will **reduce CO2e emission** in asphalt production.
- 2) It will **save up to 90% energy** in asphalt production compared to hot-mix asphalt.

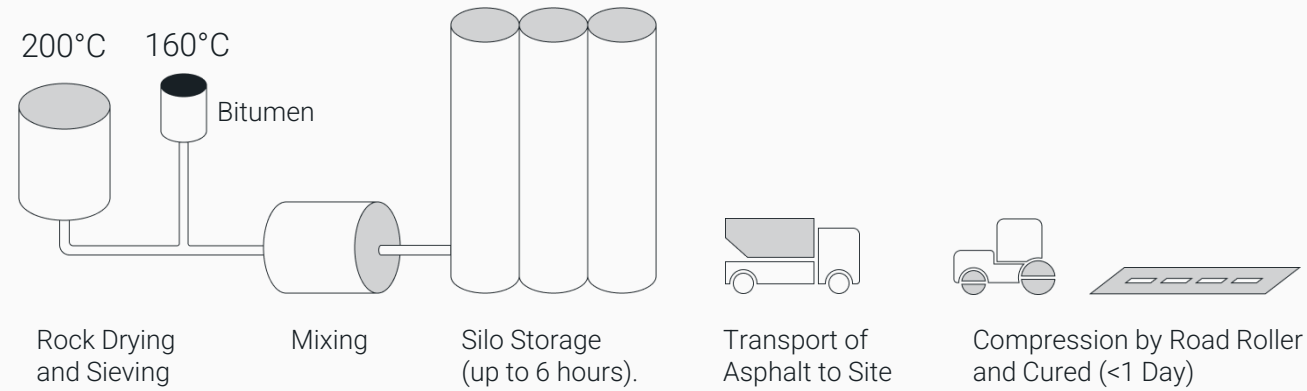
Mycelium from visiBIT

Substrate (non-food)

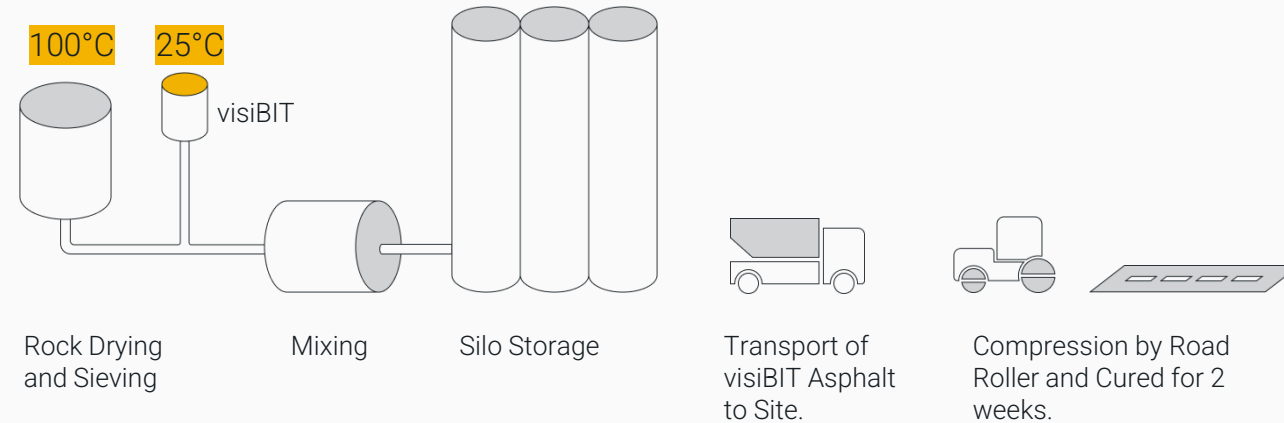
Recycled asphalt aggregates
or new rock aggregates

visiBIT as a Plug-and-Play Integration with Today's Asphalt Factories

Bitumen asphalt



visiBIT asphalt



The Danish Asphalt Industry is Lining up for visiBIT



"NCC Industry A/S would be very **interested as a buyer** of the new binder, visiBIT, if the technology can be matured, the quality of the binder ensured, and production scaled to the amounts needed in asphalt production"
(Letter of Intent signed 12.02.24)

Lars Vester,
Head of Department, NCC Industry



"Munck Asphalt A/S is interested in and supporting Visibuilt's project regarding the development of a biobased road pavement material with a lower CO2 footprint. The project is of great interest to Munck Asphalt and can potentially support us in our work with reducing the CO2 emission in asphalt production. Provided the technology matures successfully, Munck Asphalt is definitely interested and **a possible customer**."^{*}
(Letter of Intent signed 16.11.22)

^{*}translated from Danish.

Jan Nørregaard Olsen,
Former CEO,
Munck Asphalt



"Visibuilt is an exciting initiative with a **potential to revolutionize asphalt production**. Everyone who drives on roads has experienced the need for asphalt to repair roads after winter and if this can be achieved with a high percentage of biobased materials instead of fossil oil-based materials, it would be a huge achievement," says CEO of Danish Infrastructure (Dansk Infrastruktur) Torben Liborius, who hopes the positive perspectives can materialize into production."^{*}
(LinkedIn Post 20.03.24)

^{*}translated from Danish.

Torben Liborius,
CEO,
Dansk Infrastruktur




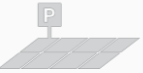



From the ASFALT magazine: "... We need to **think outside the box** regarding the climate. Therefore, we are bringing an exciting article by the CEO of Visibuilt, which is a Danish start-up on the verge of creating a fermented binder for road pavements as an alternative to fossil oil-based binders."^{*}
(From ASFALT – Vore Veje, Vol. 4, 2023)

^{*}translated from Danish.

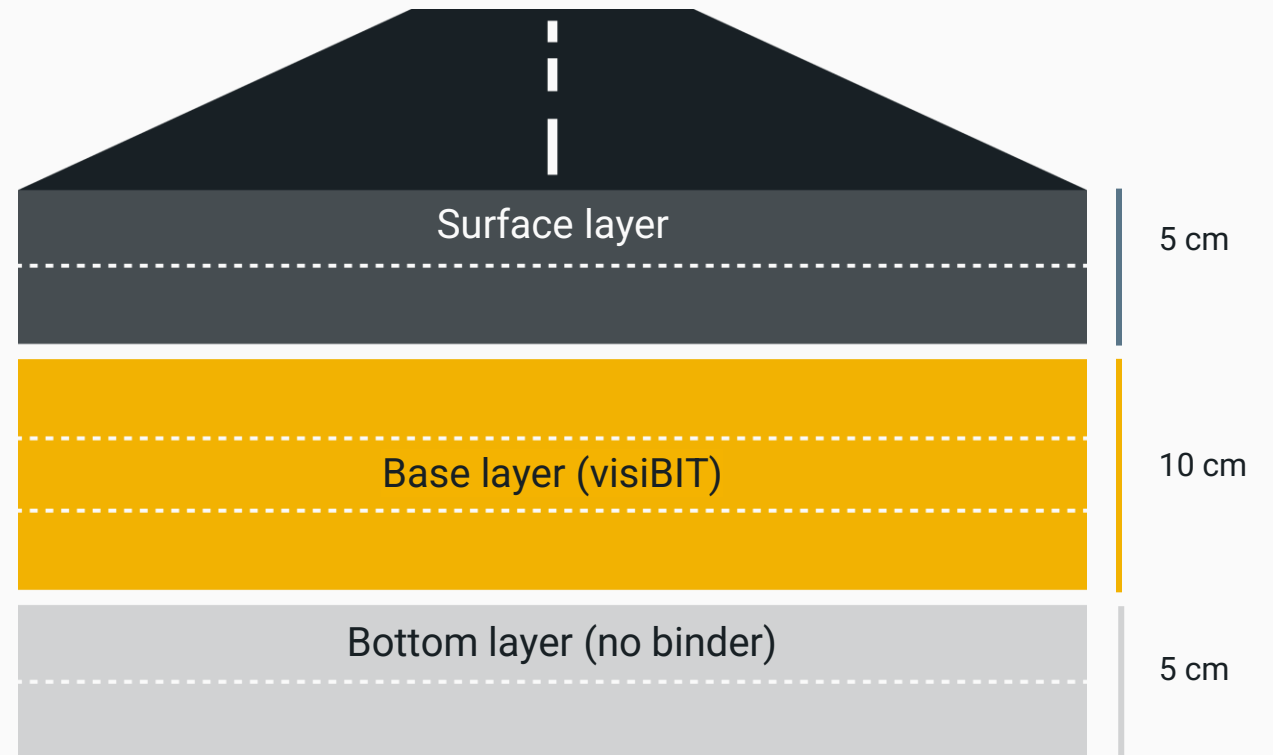
Anders Hundahl,
Former managing director,
Asfaltindustrien



Initially Developing Features for Replacing Base Layer in T0 Pavements

Year of market introduction	Pavement Classification	Use Cases with visiBIT	
2025	T0	Park roads Bicycle lanes	
2026	T1	Parking lots	
2028	T2	Country roads	
2030	T3	Country roads	
2035	T4	Express roads	
Class >T5 are achieved by using T4 technology and applying thicker layers	T5	Highways	
	T6	Highways	
	T7	Heavy trafficked highways, Airport roads	

visiBIT is developed to replace bitumen in the **base layer**, which is the largest layer in asphalt roads:



The First Outdoor Test of visiBIT Completed

50 kg

produced for making pavement material, called visiPAVE.

1 industry partner

paved with standard equipment for small areas.

4 protocols

tested to understand how to use visiBIT outdoors.



Validation of Fit to Current Asphalt Infrastructure

2.6 tons

of visiPAVE to be produced for Femern field tests.

1 field-section

to be constructed to test integration in current asphalt practices.

5 partners

involved in production and data collection.



Meet our **team** and **advisors**

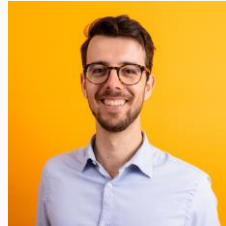
Business & Commercial



Line Kloster Pedersen
Founder & CEO
Co-Founder of fungi food start-up



Kresten Kloch
CFO
Chairman and 20 years of CFO experience



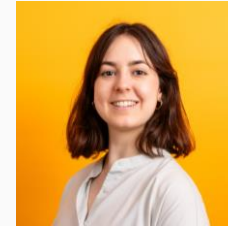
Max van 't Hof, PhD
Business Developer
Biotech venture development and BD coach for 45+ start-ups



Cecilie Håkansson
Communications Manager
SoMe, journalism, event planning, and media management



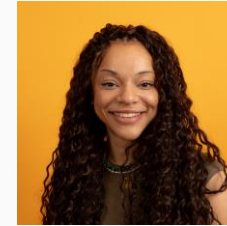
Oleksii Rebrov, PhD
Head of Science
IP author, start-up experience, and applied physics background



Anna Guitó Vilardell
Research Operations Manager
Mycelium production and biotechnology



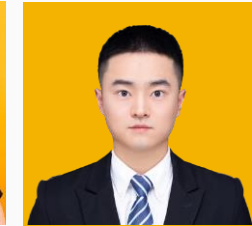
Caroline Thyssen Petersen
Scientist
Protein engineering and biotechnology



Sara Ozochi
Junior Researcher
Microbiology and fungal biotechnology



Elisa Pioger
Junior Researcher
Mycelium composite material and sustainable energy



Yike Yin
Industrial PhD, LOOPER project
Pavement engineering materials, Chang'an University



Odd Erik Hansen
Owner of MM Advisory, Former CEO of Glycom
Commercial and market strategy



Jesper Mørk
Owner of MI Biotech Consulting, Former CTO of Glycom
Scale-up production and techno-economics



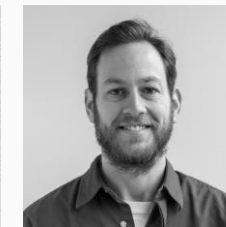
Anne Lerche
Heading Alliance for Biosolutions, Dansk Erhverv
Political and regulatory support.



Michael Skovslund Nielsen
Head of Product & Sustainability, Munck Asfalt
Asphalt expert



Bjarne Bo Lund-Jensen
Product manager Lab & Product Engineering, NCC Industry
Asphalt expert



Achiya Livne, PhD
Science consultant
Mycelium composite materials for construction



Eyal Levenberg
Pavement professor, DTU
LOOPER partner

Let's Stay in Touch

More Info

Partnerships
Science
Business Development
Press

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Invest

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the road towards a more
sustainable future

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