

IN THIS EDITION

1. Retrospective: Space Tech Expo Bremen 2025

2. News from our Network

2.1 betterSoil

2.2 Horizon Microtechnologies

2.3 IHK Network Water

3. Upcoming & Save the Date

3.1 Delegation trip Canada April 2026

3.2 GSC Dinner & Dialogue 2026

1. Retrospective: Space Tech Expo Bremen 2025

🚀 "One small step..." 🚀

... and we certainly took many small but meaningful steps during our days at Space Tech Expo Europe! ✨

On Tuesday and Wednesday (Nov. 18- 19) we were on site for two days full of inspiration 💡, energizing conversations 🗣️, and fresh insights into the future of space innovation 🌌.

We are especially proud to have brought **YOUR** technologies and innovations from Baden-Württemberg into the discussions – showing how our region actively contributes to shaping the future of green space solutions 🌱.

[📄 LinkedIn Post GSC](#)

[📺 YouTube Interview betterSoil & Senkrechtstarter](#)



🙌 THANKS TO ALL OF YOU WHO JOINED US AT THE TECHNOLOGY FORUM.



betterSoil in a nutshell:

betterSoil is an international initiative committed to healthy soils and sustainable agriculture. Their goal is to regenerate soils, capture CO₂ and empower people around the world to work in a climate conscious and soil friendly way.

They combine scientific insights with practical tools, training and partnerships. Together with farmers, companies and organisations, they develop solutions that unite ecological impact with economic benefit.

Whether in Africa, Asia or Europe, betterSoil strengthens local communities, improves yields, protects resources and contributes to making agriculture more resilient. Healthy soils form the foundation of food security, biodiversity and a stable climate.

The betterSoil Advent calendar 2025

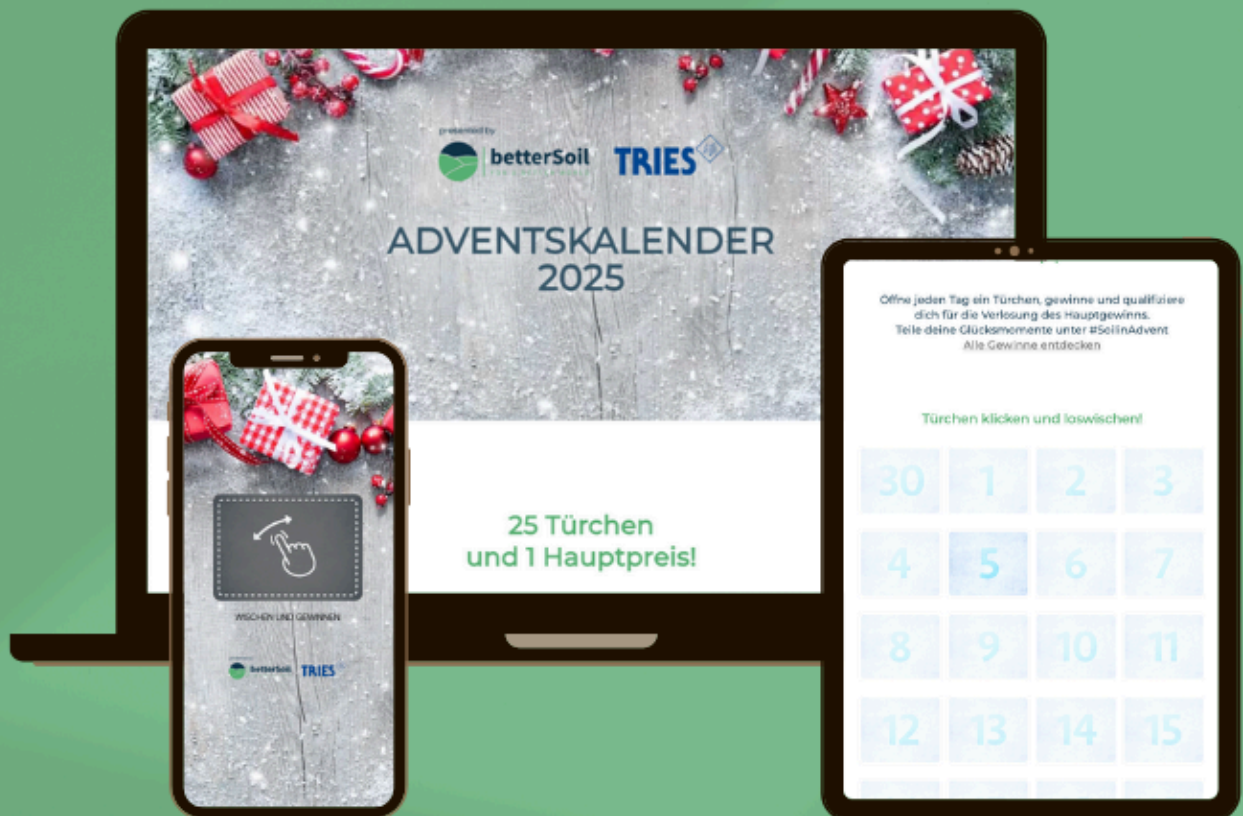
This year, you can look forward to an Advent season filled with joy, inspiration and impact. Even though nature rests in winter, our shared responsibility remains alive: raising awareness, inspiring action and protecting what sustains us, step by step and day by day.

This is exactly what we celebrate with the betterSoil Advent Calendar 2025.

Twenty six sustainable gifts, selected together with partners who share our values and stand with us for healthy soils. Behind each little door awaits a small surprise, perfect for discovering, sharing or gifting to someone special.

Why twenty six gifts? We start on the first Sunday of Advent, as we do not want to miss the moment that begins the festive season. At the end, all participants will also have the chance to win a special main prize.

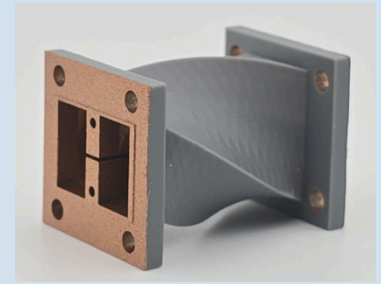
So get comfortable, open your first door on Sunday and let the pre Christmas season accompany you with ideas and brands that make a positive difference.



[Advent Calendar betterSoil](#)

HORIZON COATINGS PASS RADIATION RESISTANCE TEST, PUSHING MICRO AM DEEPER INTO SPACE

PRESS RELEASE, Karlsruhe, 14th October 2025



Horizon Microtechnologies has achieved a significant milestone in its testing and validation program, with metal coated micro-3D printed components successfully passing radiation resistance testing. The results mark another step forward in proving the durability of Horizon’s proprietary metal coatings in the most extreme environments, including outer space.

The test was designed to explore two long-standing technical concerns:

- Would radiation exposure compromise the coating or its adhesion to the polymer substrate?

No. The coatings remained fully adhered and structurally intact throughout the simulated exposure period.

- Would radiation degrade the polymer substrate itself?

Yes. As expected, radiation caused an increase in brittleness. The important aspect was whether the polymer would become unacceptably brittle. The question whether “more brittle” means “too brittle” is component and application specific. The data now collected on the irradiated parts can be used for simulations that answer this question for a given part. Also, in a satellite component, the degradation would only occur after the typical launch-phase mechanical loads, meaning the highest stresses would be experienced by not-yet-irradiated parts. Therefore, the practical application limits will in all likelihood be set by the non-irradiated mechanical properties.

Andreas Frölich, CEO of Horizon, comments, “This is about delivering proof, rigorous, transparent, and relevant. Our data shows that coated polymer parts can perform reliably even in high-radiation environments, making them increasingly viable for space missions.”

Where brittleness might still present challenges beyond launch, Horizon offers customer-specific support, using its test data to help optimise part geometries and designs. This ensures solutions can be tailored to reduce post-radiation stress points, maintaining both performance and safety.

The testing simulated a radiation dose equivalent to approximately four years in a low earth orbit, aligning closely with the expected operational life of many satellite components. Horizon’s technology is designed to combine precision micro-AM with high-performance coatings, offering benefits such as:

- Very high electrical conductivity
- Lightweighting (up to 80% weight savings compared to solid metal)
- Geometric complexity unmatched by conventional manufacturing

This radiation milestone joins other validated performance tests already passed by Horizon, including temperature shock and outgassing, reinforcing the robustness of its process.

Frölich adds, “Each successful test expands the envelope of where and how our technology can be used. We’re not just qualifying parts, we’re enabling new possibilities.”

Horizon continues to advance its testing roadmap. Each step is part of a larger mission to provide industry with the confidence that coated 3D-printed micro parts are ready for tomorrow’s most demanding applications.

Network Water Event: “Water meets Space”




Zwischen Wasser und Weltraum

Entdecken Sie, wie Technologien aus der Raumfahrt praktische Lösungen für die Wasserwirtschaft ermöglichen und welche Chancen sich daraus für Ihre Arbeit ergeben. Ph. D. Fernando Mazo D’Affonseca von HydroGeoTwin UG und Anand Waghmare von Yugen Space zeigen, wie das bei ihren Start-ups in der Praxis aussieht.

8. Dezember, 16:30-18:30 Uhr, Forum, IHK Reutlingen

IHK Industrie- und Handelskammer
Reutlingen
Reutlingen | Tübingen | Zollernalb

How can data from space help us better understand our water resources and use them more sustainably? At the next meeting of the Reutlingen Chamber of Commerce and Industry's Water Network, you will learn how expertise from the Green Space Center Baden-Württemberg is making this possible.

 Two start-ups from Tübingen will show how space technologies are solving real challenges in water management:

- **HydroGeoTwin** and founder **Fernando Mazo D’Affonseca, Ph.D.**, make water and soil dynamics visible using digital twins, satellite data, and AI.
- **Yugen Space** and founder **Anand Waghmare** analyze soil and water conditions in a comprehensible and practical way using hyperspectral satellite data.
- In addition, **Evelyn Schaible** and **Dr. Tobias Adamczyk** provide insights into the work of the Green Space Center, which supports both established companies and startups in building global networks in the space context.

 Save the date now and get to know the network!

 [Registration Network Event](#)

3.1 Delegation Trip Canada by bw-i – Aerospace industry April 12- 16, 2026



The greater Montréal area is recognised worldwide as one of the most important centres for the aerospace industry and is Canada's number one aerospace hub.

Join us in Montréal for the [Aerospace Innovation Forum](#) – the largest gathering of international decision-makers in the aerospace industry in Canada. On 13 and 14 April 2026, you will have the opportunity to participate in plenary sessions, conferences, workshops, dynamic presentations, technological B2B meetings, a showroom for aerospace innovations and several networking events.

On 15 and 16 April 2026, following the forum, a special programme (in cooperation with Bayern International) is planned with visits to important aerospace players from industry and research.

The aim of this trip, led by the ministries of economic affairs of Baden-Württemberg, Bavaria, Bremen, Hamburg and Lower Saxony, is to open up new opportunities for you and your company in an attractive international market.

The exciting itinerary will give you a wide range of opportunities for networking and exploring relevant markets.

More information: [Explore Canada's strong aerospace industry | bw-i](#)

In the run-up to the trip, an informational webinar for interested companies will take place on December 2, 2025. You can find the link here: [Microsoft Virtual Events Powered by Teams](#)

Please note: The number of participants is limited, and as of today, we can only accept a maximum of 5 companies/participants from BW.





We are super excited!
Please let us know you're coming.

The poster features a background illustration of a rocky, alien landscape with a large cyan sun and two smaller planets. At the top, the Green Space Center logo is displayed. The main text reads 'Starting the Year 2026 Together!' followed by 'DINNER & DIALOGUE' in large purple letters, accompanied by icons of speech bubbles and a plate with a fork. The date and time are 'January 15th, 2026 Thursday | 4 pm', with a calendar icon. A location pin icon is followed by the text 'Presumably in Tübingen, further information will follow.' At the bottom, there are logos for the Baden-Württemberg Ministry of Economic Affairs, Work and Tourism, the IHK Reutlingen (Industrial and Chamber of Commerce), and 'THE aerospace LAND'.

Greeting from Reutlingen,
Tobias, Marcin, Evelyn & Vanessa