

## Press Release

*Forum on Innovations for Regenerative Viticulture and Agriculture, Changins, October 28, 2025*

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### Three Startups Unite to Deliver On-Site Disease Detection for Vineyards

**Changins, Switzerland, October 28, 2025** — At the Forum on Innovations for Regenerative Viticulture and Agriculture, three pioneering startups supported by **Fondation Valéry** — **databaum**, **GenoRobotics**, and **Waven** — announced a joint project to develop a breakthrough system that enables grape growers to receive rapid, on-site confirmation of grapevine downy mildew alongside predictive disease alerts.

By combining their core technologies, the startups will close the loop from **predictive models for early disease warnings** to **field biological validation**. The integrated solution brings together:

- **databaum**'s AI-based disease forecasting platform,
- **GenoRobotics**' portable genetic identification technology, and
- **Waven**'s solar powered sensor networks.

Together, they will deliver actionable, real-time reports that empower growers to make faster, more informed decisions — reducing reliance on pesticides, cutting operational costs, lowering CO<sub>2</sub> emissions, and preserving local biodiversity.

Deployment is planned for the coming year, with the installation of **30 additional weather and sensor stations**. The collected data will enable AI disease prediction models to determine optimal sampling windows for **100 real-time mildew detection tests** across two full harvest cycles.

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### Building on a Proven Foundation

This new phase builds on a previous project funded by **Fondation Valéry** and **Innovaud (Synnergy)**, which brought together **databaum**, the **EPFL Laboratory of Catchment Hydrology and Geomorphology**, **C Greene Solutions Sàrl**, **Domaine Henri Cruchon** and **Domaine du Daley**.

That initiative led to the improvement of **databaum**'s existing platform, which integrates advanced field sensors, mobile applications, real-time data analysis, and AI-driven disease and hydrological modeling. The comprehensive solution — that is **already in use in over 100 vineyards representing more than 5% of the Swiss wine-growing area**— lays the groundwork for precision management of both crops and ecosystems.

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### Supported by Tech4Regen

Both projects are part of the **Tech4Regen** acceleration program from **EPFL Innovation Park**, which supports startups advancing scalable solutions for a regenerative economy. Through industrial and marketing coaching, execution support, and partnerships, Tech4Regen helps transform innovation into market-ready impact.

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## About the Forum

### Forum on Innovations for Regenerative Viticulture and Agriculture

 October 28, 2025 — Changins, Rte de Duillier 52, CH-1260 Nyon

 Program: [tech4regen.ch/event/innovations-for-regenerative-viticulture-agriculture](https://tech4regen.ch/event/innovations-for-regenerative-viticulture-agriculture)

The forum showcased 2 pioneering pilot projects and 17 innovative startup solutions driving the transition to regenerative agriculture.

It brought together around a hundred participants and sparked dynamic conversations about the financial, regulatory, and structural changes needed to scale these solutions and align efforts around shared agricultural, environmental, and economic goals.

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## About the Partners

**databaum** — <https://databaum.ch/>

A SaaS AgriTech startup developing AI-driven tools that combine field and weather data to predict crop diseases and provide actionable insights, helping farmers increase yields and reduce losses.

**GenoRobotics** — <https://www.genorobotics.org/>

Provide DNA-based tools and services for rapid, on-site identification of species and pathogens, enabling real-time monitoring in agriculture, conservation, and biodiversity research.

**Wave-n** — <https://wave-n.com/>

Develop ambient energy harvesting solutions for IoT and smart sensors, enabling off grid, sustainable operations with ultra-low power microelectronics.

**Fondation Valery** — <https://www.fondation-valery.ch>

A philanthropic venture partner bridging the gap between traditional philanthropy and early-stage impact investors. The foundation leverages its capacity to generate and support impactful, tech-oriented solutions with the potential for wide-scale deployment.

**Tech4Regen** — [www.tech4regen.ch](http://www.tech4regen.ch)

An EPFL Innovation Park program accelerating disruptive technological solutions that tackle planetary boundaries.

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