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## **Dotz Completes Scale-up of Sorbent Production Capabilities; Appoints Head of Engineering**

### **Key highlights**

- **Dotz has successfully completed scale-up of its proprietary synthesis method for converting plastic waste into a porous carbon sorbent specifically designed for CO<sub>2</sub> capture;**
- **DotzEarth proprietary nano-porous sorbent technology demonstrated superior results compared with existing commercial sorbents, indicating the potential to drive down the cost of carbon capture;**
- **Appointed Head of Engineering, strengthening in-house capabilities towards technology demonstration at scale.**

Dotz Nano Limited (**ASX: DTZ**, “**Dotz**” or “**Company**”), a leading developer of innovative climate and industrial nanotechnologies, is pleased to announce the completion of the scale-up of its internal sorbent production capabilities, as well as the appointment of Head of Engineering.

### **Upscale of Sorbent Production Capabilities**

Dotz has successfully completed a 1000x scale-up of the plastic waste-to-CO<sub>2</sub> sorbent synthesis process. This achievement has resulted in a significant increase in the Company’s manufacturing capabilities, allowing to produce hundreds of grams in a single batch. This was made possible by the installation and commissioning of a large-scale pyrolysis reactor in our laboratories.

Characterisation of the sorbent from the scaled-up process has validated a superior absorption and selectivity of Dotz sorbent compared with existing commercial sorbents, indicating the potential to drive down the cost of carbon capture.

Dotz CEO Sharon Malka said: "The scale-up of our internal sorbent production capabilities is a significant milestone for Dotz, enabling the Company to expand its R&D activities including further development and optimisation of our sorbent technology and production processes. Importantly, the scale-up also provides Dotz with sorbent production capacity to independently supply sorbent to potential industrial partners for carbon capture demonstration at scale."

### **Appointment of Head of Engineering**

Dotz is pleased to announce the appointment of Mr Daniel Vorenberg as Head of Engineering. Mr Vorenberg has over 20 years’ experience across the chemicals and energy industries.

Mr Vorenberg’s most recent role was the Engineering Director & Vice President of Engineering at Plastic Back, an Israeli waste-tech start up, with accountability for expediting the commercialisation of technology and establishing engineering capability and systems.

Prior to Plastic Back, Mr Vorenberg spent the better part of two decade’s at Sasol, the Johannesburg Stock Exchange-listed global chemicals and energy company - and world leader in the development and application of the Fischer-Tropsch technology - in several roles, the most recent as director of the



Sasol Group's Engineering Talent Pipeline. Prior to this, Mr Vorenberg was a senior manager in the Project and Technology Development divisions – having been involved in the development of 3 First-of-a-Kind technologies and leading Process Engineering teams to deliver on Sasol's capital project portfolio.

Mr Vorenberg has a Bachelor of Science in Engineering and a Masters of Science in Engineering from the University of Natal Durban.

Dotz CEO Sharon Malka said: "I am delighted that Daniel is joining Dotz as our Head of Engineering. Daniel's appointment strengthens our in-house engineering capabilities as we work towards achieving our next technology development milestone of demonstrating DotzEarth at scale. Daniel will be an excellent addition to Dotz's R&D team and we look forward to his significant contribution."

This announcement has been authorised for release by the Board of Directors of Dotz Nano.

For further information, please contact:

**Media & investor Enquiries:**

John Hurst

E: [info@dotz.tech](mailto:info@dotz.tech)

P: +61 (0)418 798 663

**About Dotz Nano Limited**

Dotz Nano Limited (ASX: DTZ) is a leading developer of innovative climate and industrial nanotechnologies tackling global environmental and industrial challenges.

The company's primary focus is centered around ground-breaking carbon management technologies as enablers of carbon neutrality. Dotz's proprietary carbon-based solid sorbent, represents the next evolution in carbon capture technologies, offering an efficient and sustainable approach to drive industrial deep decarbonisation towards sustainable energy future.

To learn more about Dotz, please visit the website via the following link [www.dotz.tech](http://www.dotz.tech)