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4baseCare signs MoU with Bio Valley Incubation Council and Define Bio to build Indiaâ??s next-gen genomics ecosystem at AMTZ

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To strengthen national genomic infrastructure



In a significant step towards building India's Next-Generation Genomics ecosystem, Bio Valley, 4baseCare and Define Bio (Biobank) have signed a Memorandum of Understanding (MoU) to establish a Center of Excellence (CoE) named BioSphere dedicated to Genomics and Next-Generation Sequencing (NGS) at Andhra Pradesh MedTech Zone (AMTZ), Vizag.

The CoE-BioSphere shall strengthen national genomic infrastructure by enabling early and accurate diagnostics, informed therapeutic decisions, and advanced personalised treatments. By generating large-scale datasets reflecting India’s genetic diversity, along with the integration of relevant global genomic datasets, the CoE–BioSphere will support the development of diagnostics, risk prediction models, and therapies aligned with Indian genomic variations while maintaining international scientific benchmarks and interoperability.

It also fosters structured research collaborations among clinicians, academic institutions, industry partners, and data-based startups while also serving as a platform to train the Next Generation of Scientists and Entrepreneurs in data-driven research and product development.

At a national level, population-scale genomic insights will contribute to evidence-based public health policy and preventive strategies, enhancing accessibility, affordability, and the long-term impact on healthcare in India.

The key highlight of the initiative is the creation of a dedicated incubation center within CoE–BioSphere to nurture genomics-based startups. The center shall support emerging companies with sequencing services, access to data, and mentorship for product development. The CoE–BioSphere shall be a burgeoning hub for Genomics-driven Healthcare and Biotechnology advancements at AMTZ.