

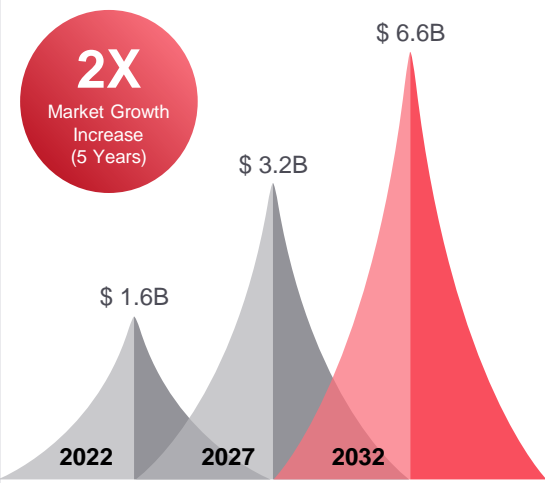
Evolving New Opportunities

BIOPRINTING INDUSTRY

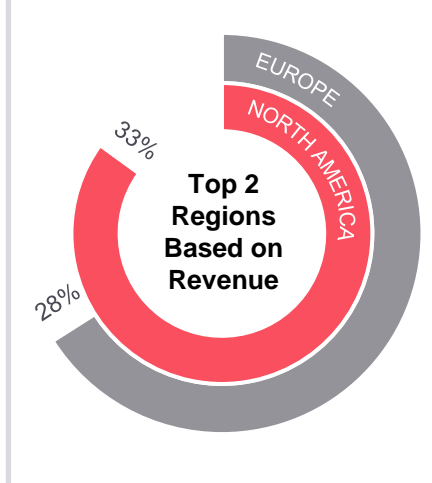


Global Bioprinting Industry

Estimated Global Market Size & Growth



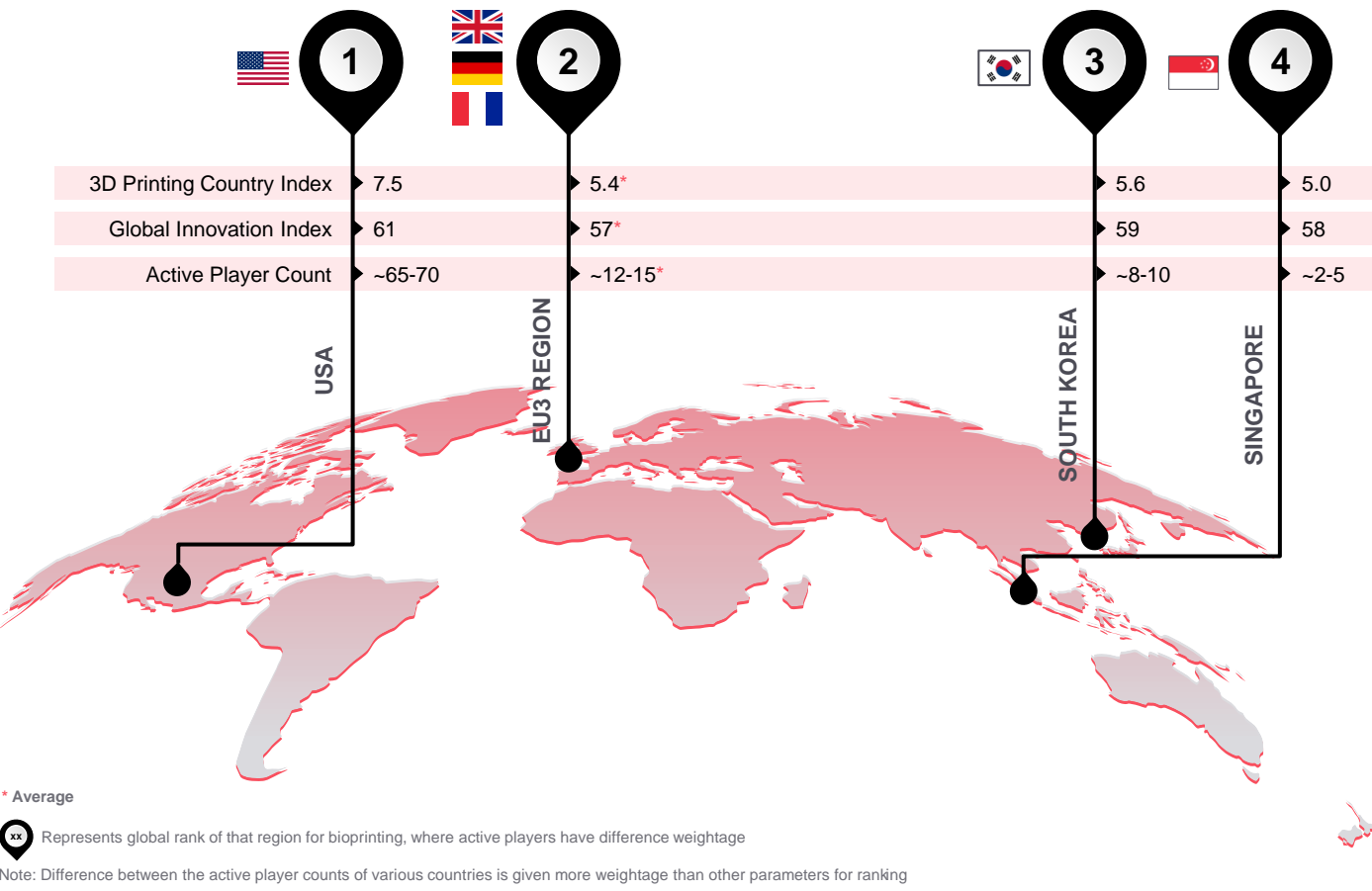
"North America holds the highest market revenue"



Major technological developments include:

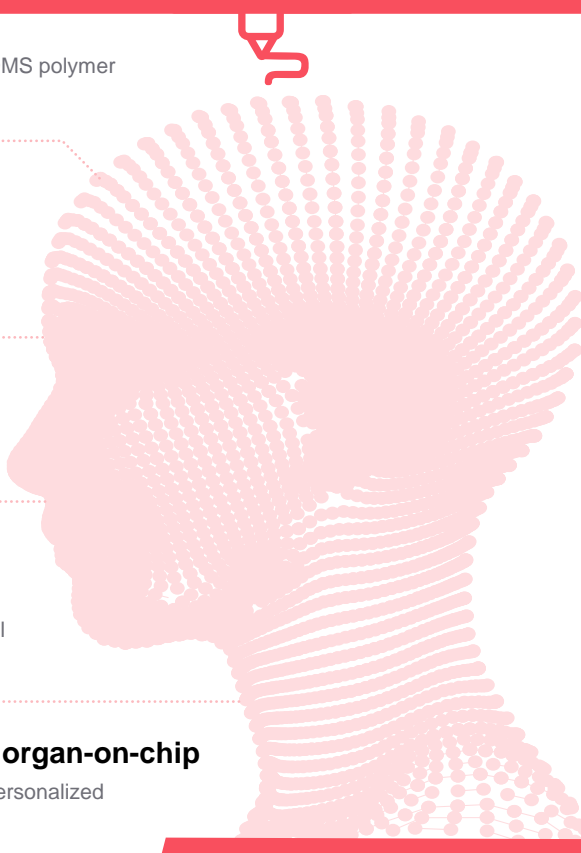
- Organ Modeling
- Drug Screening & Discovery
- Tissue Engineering & Regenerative Medicine
- Precision Oncology

Top Countries in Bioprinting Industry



Top Technology Applications in Bioprinting Industry

- ibec** (For Irish Business): Constructing biohybrid robots. Biological robots based on flexible serpentine spring of PDMS polymer using simulations and 3D-technology.
- 3D SYSTEMS**: Patient specific surgical and anatomical models. Patient-specific anatomic models to visualize and plan surgeries.
- UNIVERSITY OF SCIENCE AND TECHNOLOGY**: In vitro model of diabetic skin. Artificial skin that reproduces the skin diseases of diabetic patients.
- UNIVERSITY OF SHEFFIELD**: Printing large-scale functional tissues or organs. Engineered biohybrid composite material with the essential characteristics of a natural tissue.
- AGC**: Printing micro-physiological systems & organ-on-chip. Biocompatible urethane acrylate oligomer for 3D printed personalized organ models.
- T&R Biofab**: Patented tissue-printing technology to surpass the need for open-heart surgeries.



Top Start-ups in Bioprinting Industry

CELLINK Novel patent pending dispensing mechanism CELLX - high-throughput, fully automated bio dispensing solution for creating physiologically relevant 3D model	nuclera nucleics The "eProtein" system ramps up the rate at which scientists can create the samples needed to study protein-to-protein interactions (PPIs) by reducing the lead times	CYFUSE Proprietary technology "Bio 3D Printing" utilizes three-dimensional modeling by stacking multiple layers of cell clusters called "spheroids"
BRINTFR 3D bioprinted tumor organoid facilitates and automates therapeutic target discovery and are ~+30% more effective in finding the right drug	Aspect biosystems Proprietary microfluidic 3D tissue manufacturing technology	Prellis Biologics Proprietary holographic laser printing technology for rapid construction of high-resolution complex micron-feature-sized biocompatible scaffolds
		Iandorum Cornea specific proprietary "Bio-Ink" has a native tissue like transparency, similar mechanical and chemical properties

About FutureBridge

FutureBridge tracks and advises on the future of industries from a 1-to-25 year perspective.

We keep you ahead on the technology curve, propel your growth, identify new opportunities, markets and business models, answer your unknowns, and facilitate best-fit solutions and partnerships using our platforms, programs, and access to global ecosystems and players.