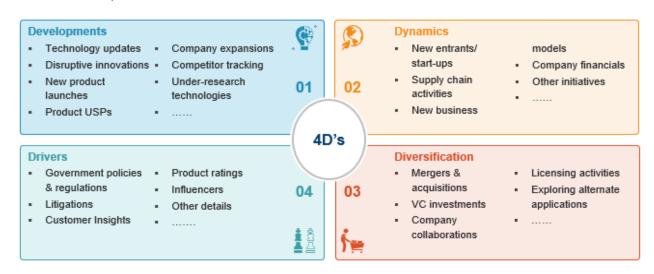


# **INTELLOTRACKER**

# 3D PRINTED MEDICINES/ TREATMENT JUNE 2023



#### ARANCA'S QUARTERLY SECTORIAL UPDATE ACROSS FOUR DIMENSIONS....







## **DEVELOPMENTS**

Technology/ Innovation



Stanford University researchers are working on various challenges associated with 3D Printing. The innovation includes increasing printing speeds by 10x to introduce multiple materials at once. Another innovation is using light to carve intricate designs into stationary mounds of resin to build from the bottom up.

Source: Stanford News

Technology/ Innovation



A device that acts as a three-in-one surgical tool can also 3D-print living cells inside the human body in real-time. It consists of a water jet, scalpel, and endoscopic camera.

Technology/ Innovation



Rice University discovered that 3D printable ink derived from multidomain peptide (MDP) could be utilized to create cell scaffolds for growing tissue.

Source:

Technology Innovation



Volumetric 3D printing has enabled the pharmaceutical industry to customize drugs. The customization can be done in the area of shape, size, dosage, and release.

Technology Innovation



Biomedical engineers in Australia have developed a small flexible robot that can be used to 3D print biomaterials directly inside the human body.

Source: Economic Times

Technology/ Innovation



3D-printing technique using silicone can make accurate models of the blood vessels in the brain. It enables neurosurgeons to train with more realistic simulations before operation.



## **DYNAMICS**

New Entrants/ Start-up



Chennai-based startup ISMO Bio-Photonics has developed a palm-sized 3D-printed microfluidic chip to provide personalized drug screening for cancer patients.

Source: Indian Express

New Entrants/ Start-up



Axial 3Ds newly opened facility will make it easier for hospitals and medical device manufacturers to access realistic 3D-

printed anatomical models, for various healthcare purposes.

Supply Chain

Activities



Dubai-Based 3D Printing Startup Sinterex Is Solving Supply Chain Mismanagement Issues for UAE Companies. The

company offers mission critical parts across a spectrum of sectors including dental, medical, as well as the oil and gas industries.

Source: Entrepreneur Middle East

Company Financials



Dimension Inx, a Chicago "biomaterials" startup developing 3D-printed medical implants, has raised funding of \$12 Million from investors

Source: Chicago Business



## DIVERSIFICATION

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Collaboration	11041011



Hovione, a contract development and manufacturing organization (CDMO) and Laxxon Medical, a pharma-tech company will collaborate to advance 3D screen printing technologies for the pharmaceutical industry.

Partnership/ Collaboration



Stratasys Signs Agreement with Ricoh USA, Inc. to provide on-demand 3D-printed anatomic models for clinical settings. Source: Business Wire

Funding



Xolo announced that it has closed its latest Series A funding round, raising a total of €8 million (\$8.6 million).

Funding



The UK's Engineering and Physical Sciences Research Council (EPSRC) has awarded a team at the University of Nottingham £6 million to develop a toolkit that helps get 3D printing into the country's hospitals and surgeries. Source: 3D Printing Industry

Mergers and Acquisition

Partnership/

Collaboration



Neutrogenar Nourished

Materials supplier Braskem announced the acquisition of taulman3D, a supplier of nylon, recycled PETG, and PET 3Dprinting filaments to aerospace, automotive, healthcare, industrial, and other professionals. Source: Plastics Today

Neutrogena has announced a new collaboration with Nourished, a developer of 3D-printed supplements, that expands the skin care brand's reach into ingestible skin health.

Source: Happi



	DRIVERS	
Litigation	3D SYSTEMS	3D Systems settled a court case with the US federal government on February 27, 2023, based on allegations that the South Carolina company violated the Department of Commerce's Export Control Laws and the Department of Justice's False Claims Act.  Source: 3D Print.com
Government Polices and Regulation		The UK will be the first country to introduce a tailored framework for the regulation of innovative products manufactured at the point where a patient receives care, the Medicines and Healthcare products Regulatory Agency (MHRA) has announced today. This will apply to all POC products manufactured in the UK. Source: Gov.uk
Government Polices and Regulation	NSD	A \$2 million grant from the National Science Foundation (NSF)'s Leading Engineering for America's Prosperity, Health and Infrastructure (LEAP-HI) program will pave the way for the researchers to tackle the challenge of designing and 3D printing smart devices using multiple materials.  Source: Pennstate
Government Polices and Regulation	<b>aDLIFE Prints</b>	UK-based medical 3D printing specialist 3D LifePrints announced its rebranding as Insight Surgery, at the official launch of its US business in Houston.  Source: 3D Printing Industry.

#### **SOLUTION PORTFOLIO – TECHNOLOGY RESEARCH & ADVISORY**

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IP Strategy	Technology Intelligence	Growth & Strategy
How best can we proactively manage and monetise our technical knowhow / intellectual property?	How best can we keep abreast of technology trends, competitor activity and headwinds / tailwinds in our domain?	Which technologies do we invest in? How do we ensure quick wins? Speed to market?
■ IP Portfolio Analysis	<ul> <li>Competitor Benchmarking</li> </ul>	<ul> <li>R&amp;D Strategy Roadmaps</li> </ul>
<ul> <li>IP Monetisation</li> </ul>	<ul> <li>Tech / IP Landscapes</li> </ul>	<ul> <li>Technology Scouting</li> </ul>
<ul> <li>IP Valuation</li> </ul>	<ul><li>Technology Watch</li></ul>	<ul> <li>Open Innovation</li> </ul>
<ul> <li>Prior Art Searches</li> </ul>	<ul><li>Market Analysis / Trends</li></ul>	<ul> <li>Product Development</li> </ul>

