

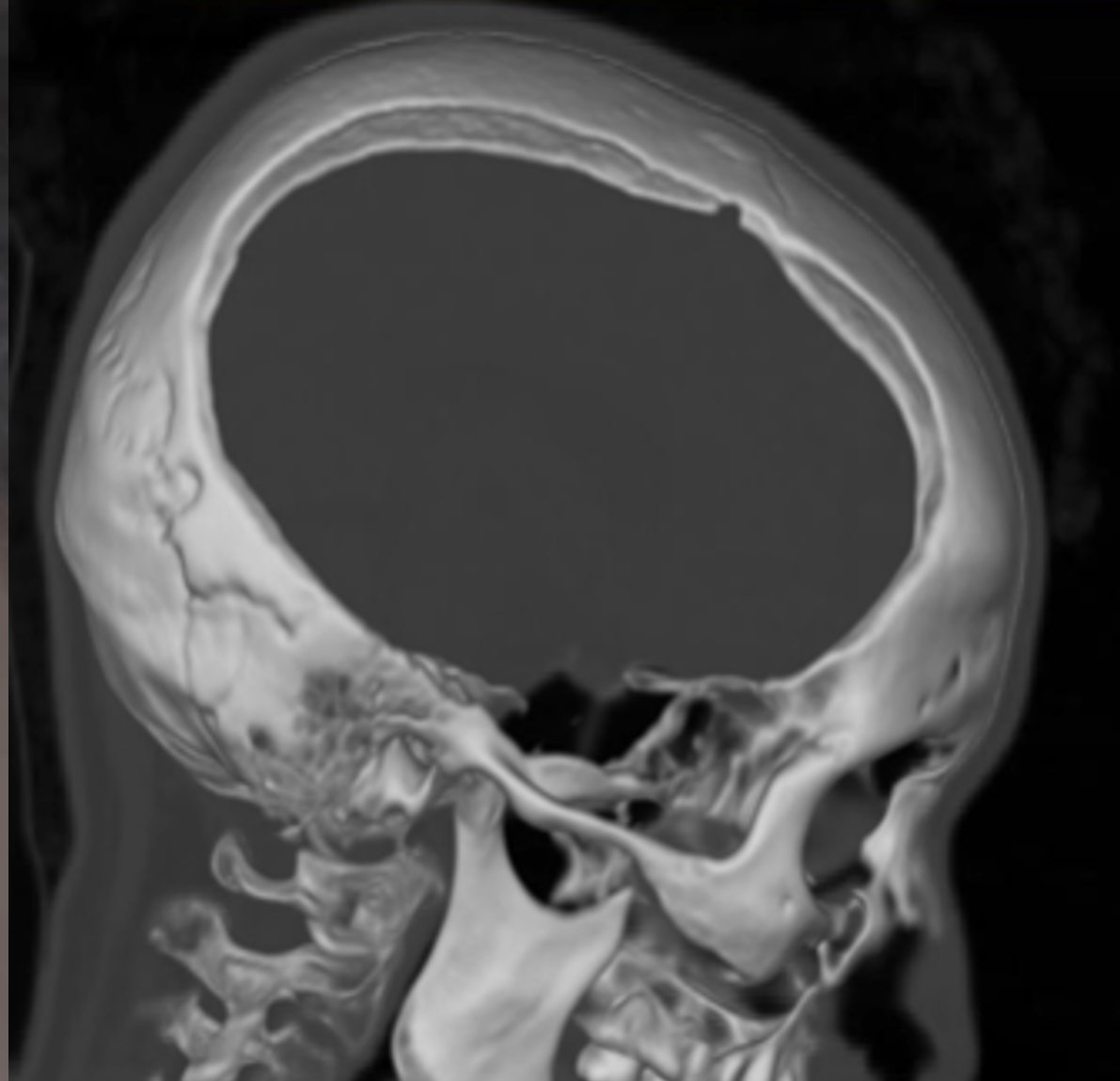


METICULY®

Personalised medical implant solutions for better lives.

Chedtha Puncreobutr, PhD

Assistant Professor at Chulalongkorn University
CTO and Co-founder of Meticuly



Patients with skull defect **suffer** from insecurity and living with **fear**.



Current
pain point

Conventional
analog treatment

Big inventory

Limited
availability



Meticuly
solution

3D anatomical
treatment and
planning

2-7 days
delivery time

All bone
locations

AI-assisted Design and 3D-printed patient-specific implants

AI-assisted Design Cloud

3D Printing Factory



Upload CT-scan to cloud server



AI design and confirmation



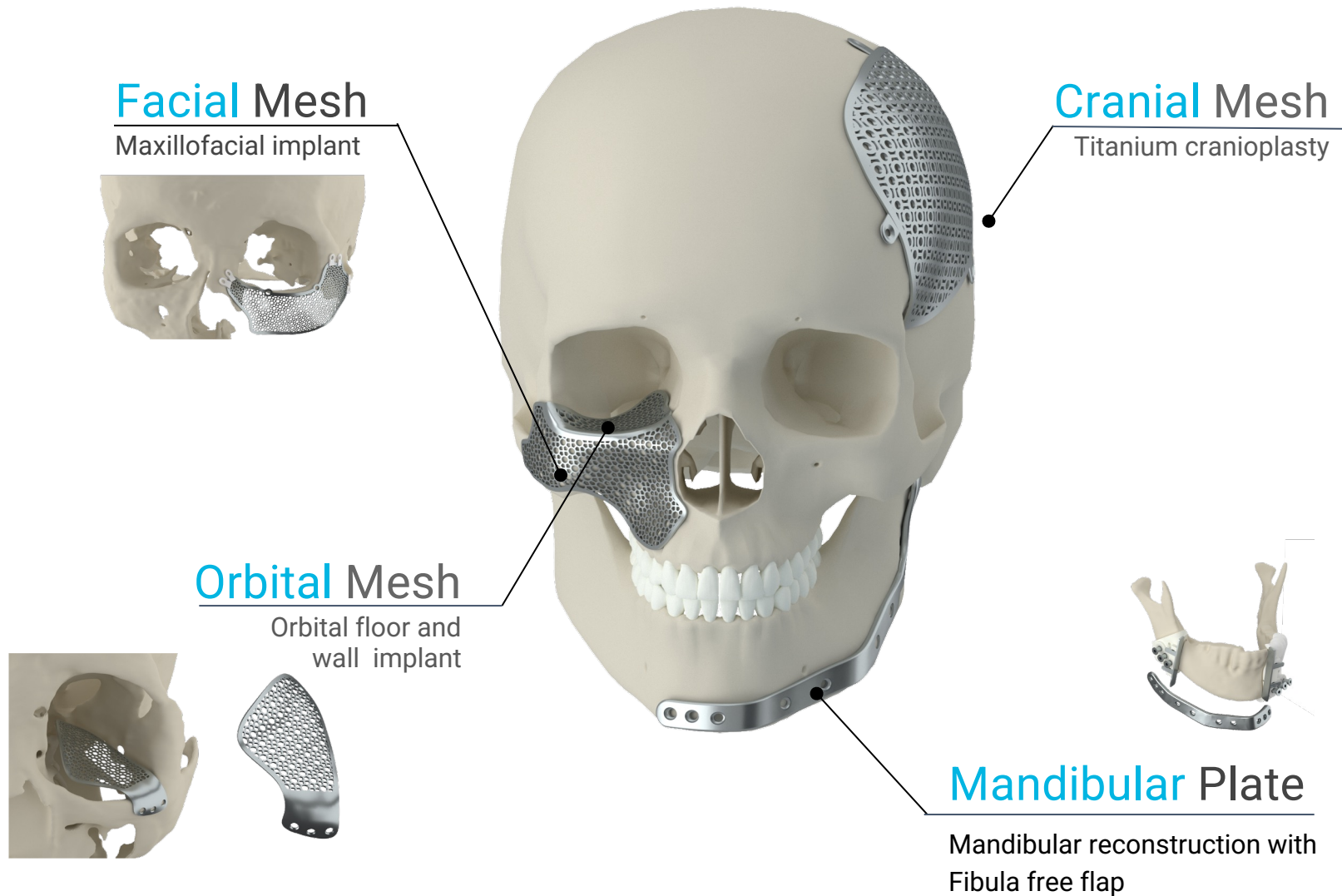
Titanium 3D printing



Sterilisation and delivery

2-7 days turnaround time (industry's fastest)

Patient-specific Implant Solution for CMF Surgery



The patient-specific titanium implant serves to **replace defective bone lost in the cranio-maxillofacial region from trauma, congenital condition, tumors, or even cranioplasty.**

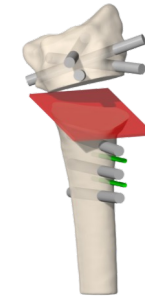
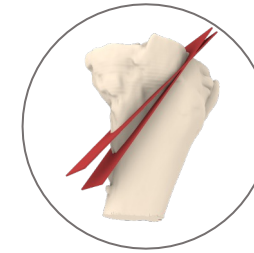
The implant's contour is designed anatomically, based on CT scan data, to cover the bony void with overlapping margin.

Patient-specific implant solution as a service



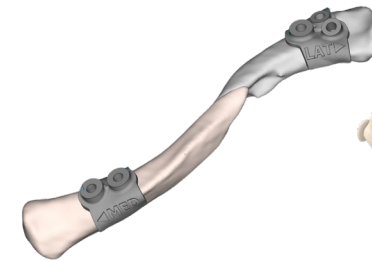
Preoperative plan

- Surgery angle approach
- Cutting plane design
- Corrective osteotomy planning
- Post operation simulation



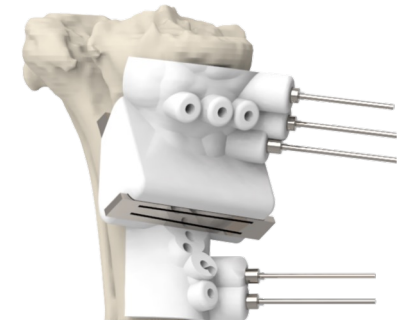
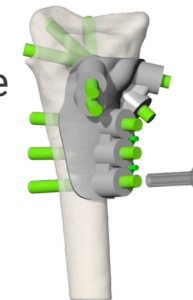
Titanium Implant

- Patient-specific plate
- Prosthesis



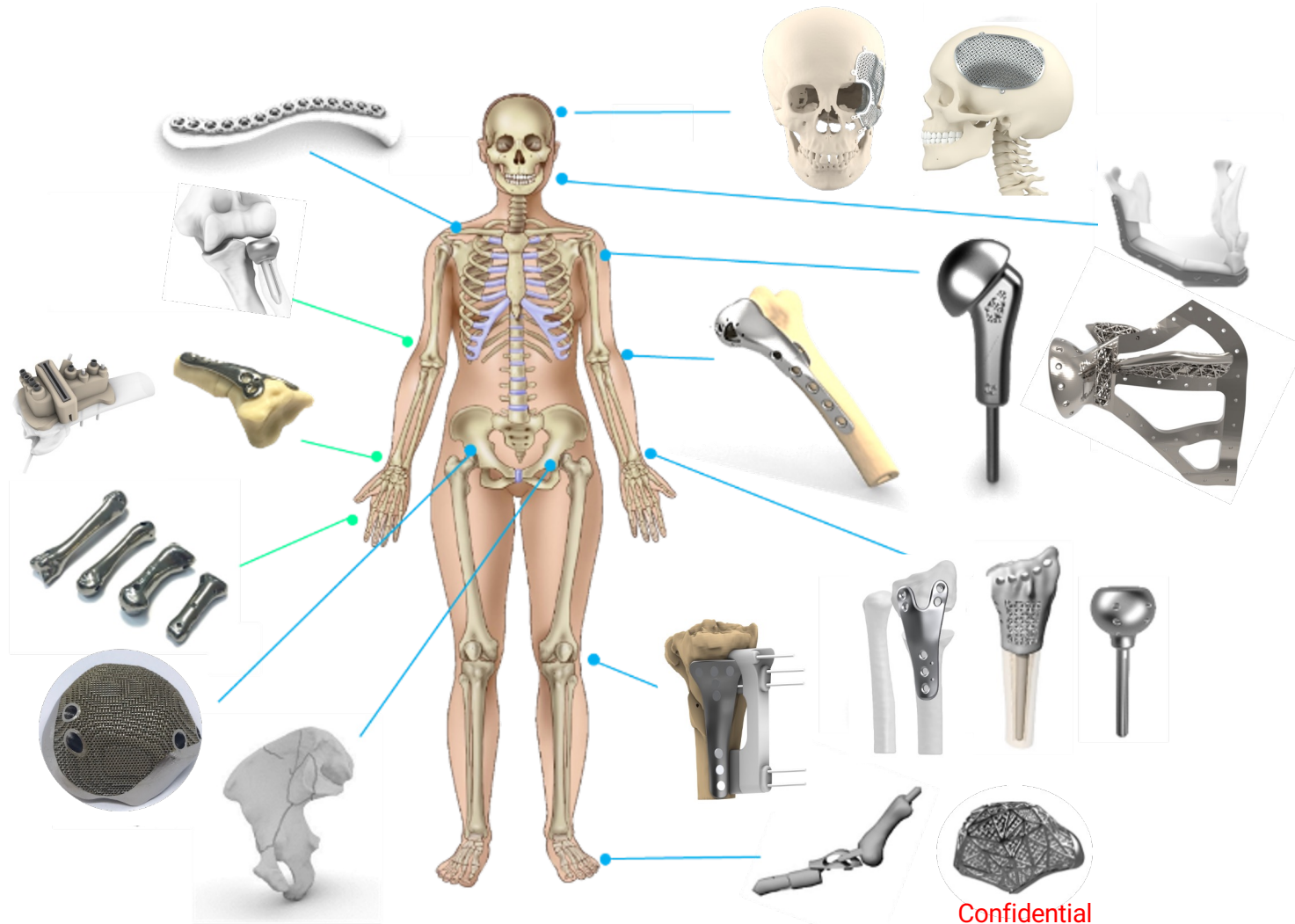
Surgical guide

- Cutting and Drilling guide
- Bone model
- Reference point for tumor bone removal and implant insertion

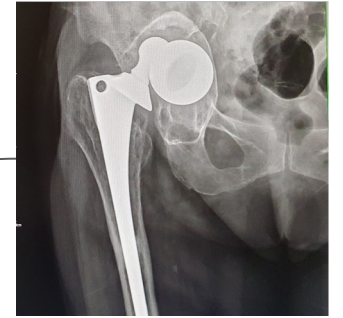


Endless possibilities with AI-assisted cloud and 3D Printing platform

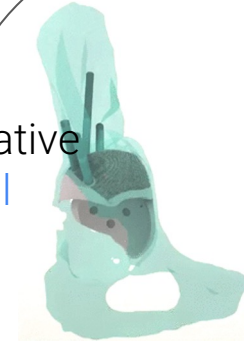
With over 45+ bone locations in the body.



Hip implant dislocation with severe acetabular bone loss



Pre-operative 3D Digital Planning



Intra-operative Implant & Surgical Guide



Desired Clinical Outcome



Confidential
www.METICULY.com

"Personalised medical solutions for better lives"

Meticuly Highlights

Personalized medical solution for better lives

20

IPs on
technology
platform

700

Cases
to-date

50

Cases
in production

Core Technology

- AI-based platform to design
- 3D-printing to manufacture

Fast 2-7 days turnaround time

from CT Scan to design, manufacturing and delivery of implant to the surgical theater at the hospital.

Accessible, top-notch solution

Significantly lower cost than the competition.

2017



Meticuly was founded.

Thailand FDA
regulatory clearance.



Thailand
Food and Drug Administration

2020

Good Manufacturing
Practice (GMP) certified.

2021

US FDA 510(k) Clearance
Granted.



2019

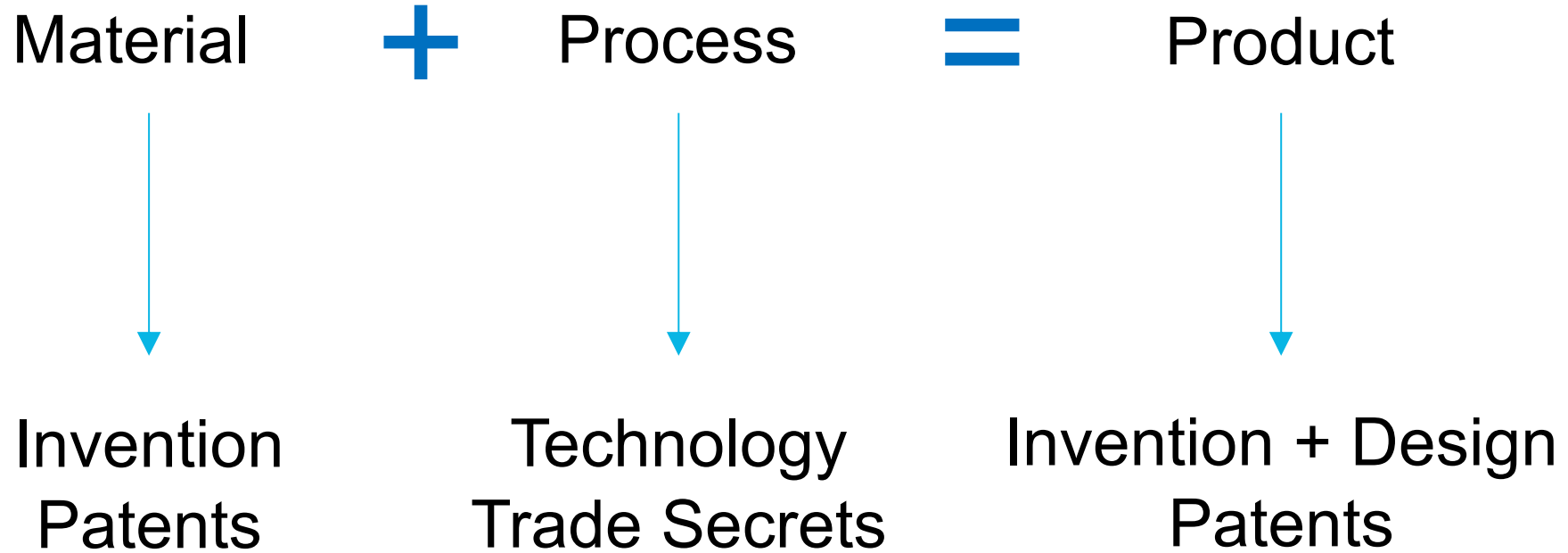
EN ISO 13485: 2016
Certified.



2021

South East Asia
regulatory clearance.

IP Portfolio



Trademark

Intellectual Property **Summary**

Patent pending technologies

6 patents

Internationally
incl. US, EU, AU, TH



Orthopedic
prosthesis



Titanium-based
alloys



Bone
fixation



Mesh
Pattern



Craniofacial
implant



Surgical
guide

Technology inventions
to protect innovative
products and **design
methods** of several
potential applications

Trade secrets

12 inventions

AI-assisted design +
3D printing + Materials



3D printing of
Titanium



Soft material
printing



Material
treatment



Surface
engineering



AI-assisted
design

Technology platform to
enable **AI-assisted design**
& **3D printing** technologies
for on-demand medical
implants with short
turnaround time



VISIT OUR WEBSITE

www.meticuly.com

for more information



Meticuly



Meticuly

