# IPI's Matching Platforms Supporting your search for innovation partners

# 15 July 2021

Innovation Partner for Impact

GAPORE

# We create opportunities for enterprises to grow through innovation

IPI is an innovation catalyst that creates opportunities for enterprises to grow beyond boundaries.

As a subsidiary of Enterprise Singapore, IPI accelerates the innovation process of enterprises through access to its global innovation ecosystem and advisory services.





# **IPI's Innovation Services and Platforms**

Enterprises can gain access to a wide spectrum of solutions throughout the stages of your innovation journey.





# Search/Post your opportunities in IPI's Innovation Marketplace

A self-service online platform that connects technology seekers with technology providers and technical experts to find collaboration opportunities through IPI's global network.

Technology Provider / Tech Expert

- Publish technology offers and expertise available for collaboration
- Search for technology needs of companies and government agencies





• Publish technology needs to crowdsource for solutions

### www.ipi-singapore.org/marketplace

- Infocomm
- Electronics
- Food & Nutrition
- Health & Personal Care
- Manufacturing
- Materials & Chemicals
- Energy
- Environment
- Logistics & Transportation

# Expand your outreach to IPI's network with your technology offers/needs

### **TECH NEEDS**

#### Collaborate with our partners to bridge technology gaps

Working hand-in-hand with our partners, we identify the pain points and craft concise problem statements to engage our innovation network. Enterprises can explore the technology needs gleaned from global industry sources, or seek solutions and expertise to accelerate innovation.





Seeking Printable Chemic Colorimetric Detection of Hydrogen Sulfide Gas

### **TECH OFFERS**

#### Discover new technologies by our partners

Leveraging our wide network of partners, we have curated numerous enabling technologies available for licensing and commercialisation across different industries and domains. Enterprises interested in these technology offers and collaborating with partners of complementary technological capabilities can reach out for co-innovation opportunities.







AloT-based Real-time Monitoring and Behavioural Pattern Recognition for Human Activities



#### TECHNOLOGY OVERVIEW

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This technology offer presents an Artificial in **TECHOFFER** of Artificial Intelligence (AI) and existing m Materials for Printed Electronics: Copper Inks

electry attractionsouly: With this integrated solution, its provides rec pattern via partern recognition. Thus, the sy' defort, This monitoring system can also be cu' The company is interread in partoning over justry participate is the following just remov. I steppare: France Joint Innovation Call TECHNOLOGY FEATURES

This technology offer is an integration of new

Based on configurable Long Short-Term M
 Anonymous human skeletal position track
 Facial Recognition technology to recognize
 Pressure mat on wheelchairs to detect pre-

Capper based his how been pairing intensis as applicably design abandher bet earnembrack maker may advance be been pairing intensis as applicably design abandher bet earnembrack maker and vanderstee bet risk. However, must all the control of the

Too variations of copper lists are available: copper complex ink, and copper particle ink. Current methods for for electroleus plating applications are achieved using paladium seed which is vary costly. Copper complex ink can form a good base for such applications where building of circuit or electrodes on 3D images are an issue providing a good cost-effective attempties solution for the manufacture of printed electronics.

Edit Tech Offer >>

**KEY INFORMATION** 

TECHNOLOGY READINESS LEVEL (TRL): TRL6

Make an Enquiry

ECHNOLOGY CATEGORY:

LOCATION: SINGAPORE

D NUMBER: TOOB4526

The company is interested in seeking collaborators from overseas companies, in particular from Germany or France, to jointly participate in the following joint innovat opportunities:

Germany-Singapore SME Funding Programme (Submission before 7 Dec 2021
 Singapore-France Joint Innovation Project (Submission before 31 Dec 2021)

#### **TECHNOLOGY FEATURES & SPECIFICATIONS**

The described technology composes of the following

TECHNOLOGY OVERVIEW

 Stable copper ink formulations which ensure that addation is kept to the minimum, these enhances shell life, and printed circuitry performance and reliability Formulated risk that can be ink-jetted, screen printed, and used in roll-seroll processe.
 Inks that can be formulated to be interested at two temperatures and/or through various methods

#### POTENTIAL APPLICATIONS

This technology is applicable (but not limited) to printed electronics in general. The inks enable the printing of conductive traces on both flexible and rigid substrates. Examples of these are:

- Printed photovoltaic
- Printed lighting Touchscreet
  Printed beaters
- Printed displays



- RFID tags
  EMI shielding
- EMI shielding
  Alternative replacement of silver ink



## **Global Network of Innovation Partners**

**Trade Associations & Chambers** 

Our diverse network of technology partners enable us to bring forth the best options available to enterprises in expanding their innovation capacity.



**Government Agencies** 



# Supporting your search for partners through the Enterprise Europe Network (EEN)



**Business Support on Your Doorstep** 

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arch by keyword, e.g. plastic, food	Be informed about new events matching your search criteria: register for personalised email alerts		
SHOW MESULTS	Sort by : <u>Deadline</u>		
	1231 opportunities found		
ilter			
n looking for a partner	German company offers liquid glass (fabric) coating technology		
With tech/expertise that I need (technology offer) That needs my tech/expertise	A German company offers a hybrid fluorinated nano silica fusion (HFNSF) technology solution with self-heating characteristics for the textile industry <u>Sec more</u>		
(technology request) To buy from (business offer)	GERMANY   6 months ago   expires in 2 days		
To sell to (business nequest) 325 To collaborate with/co- develop with insearch and	License for a bending neutral pressure distribution plate for the measurement of middle to very large forces		
development)	A German research institute has developed a bending neutral pressure distribution plate for the reduction of measuring uncertainties during the measur See more		
EU 942 NON-EU 288	GERMANY   11 months ago   expires in 2 days		
SAN 20	Seeking technological cooperation partner for scaling up of anaerobic treatment of biodegradable waste liquids		
GERMANY 174	A Spanish university offers a new anaerobic treatment of complex wastewater with biogas production, which is optimized for the agrofood sector. The ne <u>See more</u>		
UNITED KINGDOM	SPAIN   6 months ago   expires in 3 days		
FRANCE      68        UKRAINE      44        POLAND      41	Platform that offers a single environment for the visualization and exploitation of all the monitorable signals regardless of		
SINGAPORE 39	their nature or origin.		

- The Enterprise Europe Network (EEN) is the **world's largest** business and innovation network, involving participation of 60+ countries from both EU and non-EU.
- The EEN offers connection to:
  - 600+ EEN partners. e.g innovation support organisations, research institutes, TACs, etc.
  - More than 2.5 million EU SMEs;
  - Over 16,000 technology and business profiles;
  - 100+ B2B brokerage events per year
  - Types of partnerships promoted:
    - Business Partnerships
    - Technology Partnerships
    - R&D Partnerships

Leverage the EEN Partnering Opportunities Database to find your innovation partner:

- For Technology-Seekers
  - Search for a technology offer
  - Posting your technology request
- For Technology-providers
  - Search for a matching technology request
  - Posting your technology offer



Helping companies innovate and grow internationally



# Find innovation partners at TechInnovation!



**TechInnovation 2020** 

> 2,000

participants

152

e-Exhibitors

>300

Technologies

60%

international

participants

45%

C-suite and

senior

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>1.000

neetings initiated

in numbers





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Exhibitor : GORYO Chemical, Inc.	
-vivo Navigation Drug" – Active Visu	ization for Intracorporeal Surgical Operation View Details Request Meeting
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### For Tech Providers:

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- Any Exhibitor/

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You have

Join us an exhibitor to showcase your technologies and connect with industry partners over 1-1 meetings!

### For Tech Seekers:

Attend the event FREE to  $\triangleright$ check out the latest technologies and connect with providers!

**TechInnovation** is IPI's flagship technology brokerage event that focuses on matching industry needs to ready-to-market technologies.

### TechInnovation 2021 Theme: A Sustainable & Resilient Future



#### GREEN & SUSTAINABLE FUTURE

#### Green Building Energy Efficiency | Building Automation | Construction Materials | Passive Cooling Materials | Data Analytics | Virtual Environment Simulation | IoT & Sensors | AI for Energy Management | Indoor Air Quality

Towards Zero Waste (Waste to Worth) Sustainable Packaging | Plastic Recycling | Wastewater Treatment & Recycling

Towards Zero Carbon (Energy Efficiency) Solar Energy | Hydrogen | Energy Harvesting | Electric Vehicle | EV Fast Charging

#### SUSTAINABLE FOOD & NUTRITION

#### Food Protein & Nutrition

New sources | Plant-based proteins | Alternative Ingredients | Whole Egg Substitutes | Future Food | Microbes | Novel Ingredients & Processes | Composting | Food Valorisation

Sustainable Manufacturing & Packaging Food processing | Edible Packaging | Coatings | Shelf Life Extenstion

Smarter Food Safety Blockchain | IoT Sensors | Location Tracker | Predictive Analysis

Agrifood Plant Quality | Higher Plant Yield | Resource Efficiency | Automation | Agriwaste | Sustainable Agrochemicals

Aquaculture New Farming Species | Intensification | Feeds & Nutrition | Health & Genetics | Recirculating Aquaculture System (RAS) Aquafarming Technology

### www.techinnovation.com.sg



### **HEALTH & WELLNESS**

Manufacturing in Medtech Wearables | Hearables | Sensors | Assistive Devices | Additive & 3D printing | New Materials

**Digital Health** Data Analysis and AI | Monitoring | Telemedicine

Diagnostics Non-invasive test & imaging | Biochip | Genetics-based

Personal Care Hygiene | Skin Care | Wellness | Formulations | Natured-Derived Active Ingredients | Personalised Solutions | Gut Health | Pre- & Pro-biotics

## **Success Stories**



External Human-Machine Interfaces (eHMI) of Autonomous Vehicles



Robotic Bin Picking with 3D Vision



Portable Water Treatment and Purification System

View all success stories at <a href="https://www.ipi-singapore.org/success-stories">https://www.ipi-singapore.org/success-stories</a>



### Immediate project partnership opportunities under the Singapore-France Joint Innovation Call

Source	Partnership Opportunity	Remarks
Singapore	AloT-based Real-time Monitoring and Behavioural Pattern Recognition for Human Activities	Looking for French partner
Singapore	Materials for Printed Electronics: Copper Inks	Looking for French partner
Singapore	Silver Nanowire (AgNW) for Transparent Conductive Films	Looking for French partner
Singapore	Solid-state drive with embedded artificial intelligence (AI) for real-time protection against cyber-attacks	Looking for French Partner
Singapore	CO2 Capture from Waste/Biomass to Energy Plant to reduce fossil fuel-based CO2 emission	Looking for French Partner
France	Novel therapies to prevent and treat ear disorders	Looking for Singapore Partner
France	Novel Nanomedicine for oncology/cancer (solid tumours) treatment	Looking for Singapore Partner



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# Thank You

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