



Research and Development Department

Commercialization of IPs with Technicas.sg - Report

INTRODUCTION:

With objective to commercialize the Intellectual Properties (IPs) that UPES owns, potential investors were identified and contacted. A Singapore based company, 'TECHNICAS.SG - Advanced Solutions' shown interest in 15 different IPs. The director of the company, Mr. Lakhvinder Singh was contacted for further discussion. The inventors behind each of the selected IP were contacted and were requested to share inputs about their invention. Information of 11 IPs was received. The overview of the patents along with their market potential was presented to the Director, TECHNICAS.SG - Advanced Solutions along with respective inventors in a meeting.

Meeting 1: Introduction of IPs owned by UPES

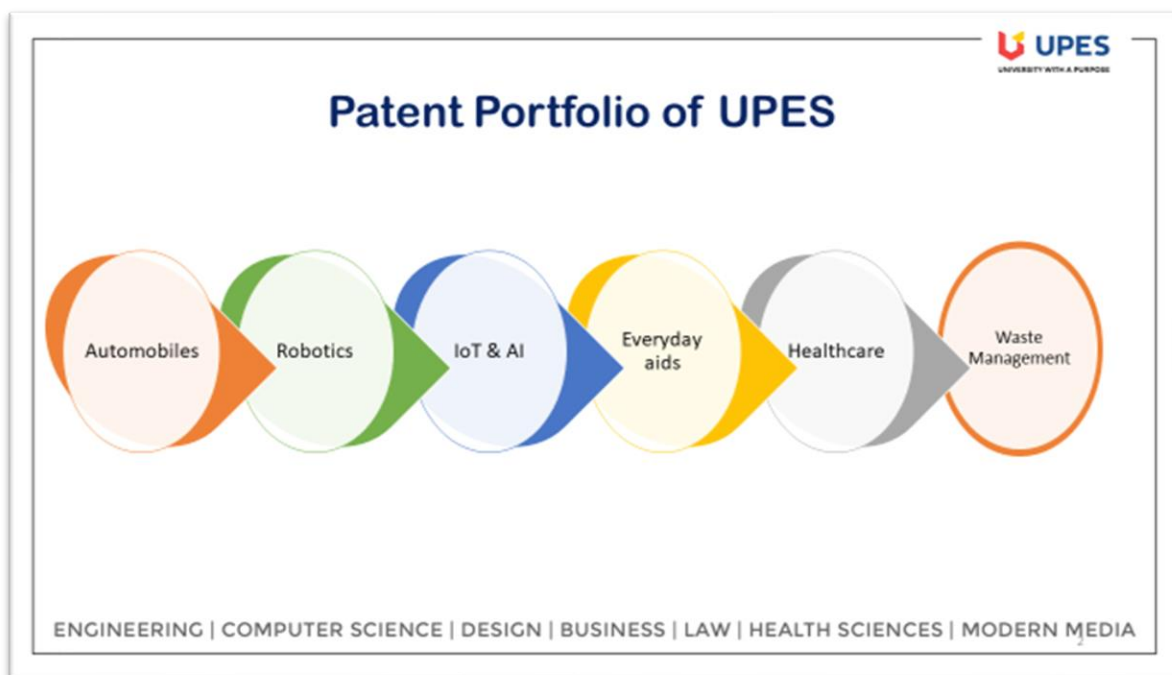
Held on Thursday, 26 August 2021 at 4:30 pm

NUMBER OF PARTICIPANTS IN THE MEETING: 3

1. Mr. Lakhavinder Singh, Director, Technicas.sg- advanced solutions
2. Ms. Khushboo Bhurat, Patent Executive, UPES
3. Mr. Mohit Nagpal, Senior Manager – Incubations, UPES

BRIEF DESCRIPTION OF MEETING:

The meeting was held with an objective to introduce the investor to the UPES intellectual property rights portfolio.



The meeting began with a formal introduction of all the participants. Ms. Khushboo shared a brief insights on the UPES intellectual property rights portfolio and titles of different IPs applied for grant that were published by Indian patent Office. Mr. Mohit took the discussion further with possible roadmap for this association.

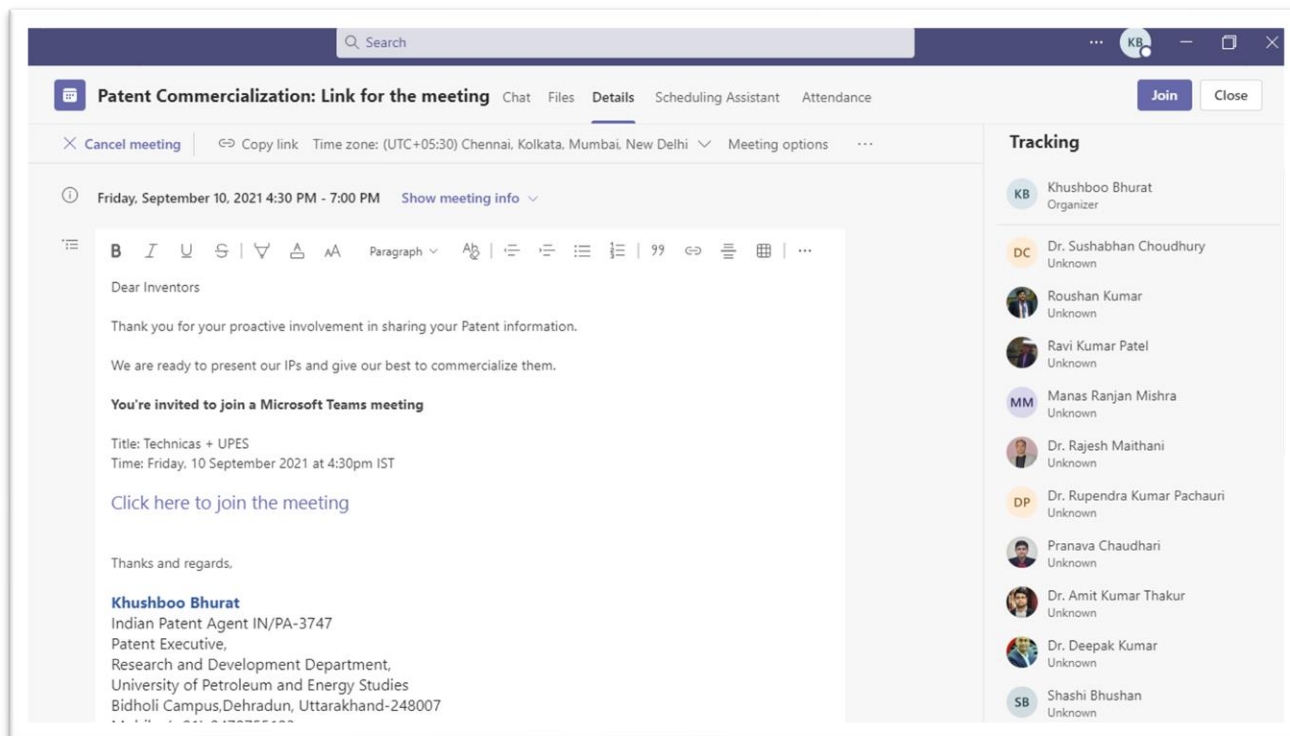
The market value and the significance of selected Intellectual Properties were discussed. Next, the investor shared a list of IPs, he was interested in knowing more about (The list attached below). The meeting ended with the assurance of a next meeting on 10th September 2021.

Sr.	IP	Application number	Title	Inventors
1	Patent	201811009289	A System for Remotely Visual Inspection and Monitoring of Road Surfaces for Cracks and Method Thereof	Rohit Sanket, Tanisha Gupta, Dr. Vikas Garg, Dr. Suresh Kumar, Dr. Rajesh Singh, Anita
2	Patent	201811007975	Intelligent Dustbin	Dr. Pankaj Kumar Sharma, Dr. Rajesh Singh, Dr. Kamal Bansal, Anita
3	Patent	201811007990	Method and System to Detect Crack in Rail Track	Rahul Raj, Himanshu Srivastava, Dr. Paawan Sharma, B. Khaleelu Rehman, Pradyumna Narayan Tiwari
4	Patent	201811007956	Smart Electronic Menu and Ordering System	Archit Aggarwal, Dr. Rajesh Singh, Anita, Dr. Sushabhan Choudhury, Rohit Samkaria

5	Patent	201811039950	A Robotic System For In-Pipe Inspection	Varnita Verma, Rohit Samkaria, Dr. Sushabhan Choudhury, Dr. Roushan Kumar, Dr. Mukul Kumar Gupta
6	Patent	201911010347	Alterable and Effectual Microchannel Rapid Prototyping for Removal of Toxic ions from Water through Adsorption onto Nano-adsorbent	Ravi Kumar Patel, Dr. Jitendra Kumar Pandey
7	Design	325566-001	Packaging Box	Aishita Kapoor, Anshika Jain, Grishma Vaibhav Vartak, Kriti Dhawan, Karina Mendiratta, Deepak S.S., Manas Ranjan Mishra
8	Design	327456-001	“Solar Energy Storage System”	Dr. Anil Kumar, Dr. Rajesh Maithani
9	Patent	202011011550	Gps Enabled Speed Analyzer For Academic Institution Governed Transportation [Gesaaigt]	Mr. Vaibhav Goyal. Mr. Krishna Chandra Singh, Dr. Rupendra Kumar Pachauri, Mr. Abhishek Sharma
10	Patent	202011016050	Insulin resistance prediction by ML based approach using non-invasive means	Dr. Alok Aggarwal, Madam Chakradar
11	Patent	202011015615	A reusable article for absorbing oil from oil spills	Neha Saxena, Numair Shirqhi Mohammed, Adithya Bontha, Pranava Chaudhari, Amit Kumar Thakur
12	Patent	202011020649	Robotic Apparatus	Raman Bala. Namya Kamboj, Namita Kamboj, Jasjit Singh, Dr. Deepak Kumar, Dr. Ajay Kumar
13	Patent	202011015035	Iot Based Device And Method For Detecting And Killing Of Mosquitoes	Mr. Shashi Bhushan; Dr. Manoj Kumar; Dr. Pramod Kumar; Mr. Anuj Kumar Singh; Mr. Yogesh Kumar Sharma; Mr. Kolambakar Swapnil Baburav
14	Patent	202011031120	A Water Filtration System	Prasenjit Mondal, Abhishek Nandan, Dr. Bikarama Prasad Yadav, Dr. Nihal Anwar Siddiqu
15	Patent	202011049926	A Water Treatment System For Gray Water	Jitendra K Pandey, Mukesh Kestwal, Prasenjit Mondal, Sukdeb Pal

Meeting 2: Presentations of the selected IPs

Held on 10th September 2021, at 4:30 PM



The screenshot shows an email interface for a meeting titled "Patent Commercialization: Link for the meeting". The email content includes a greeting to inventors, a thank you for their involvement, and an invitation to a Microsoft Teams meeting. The meeting details are: Title: Technicas + UPES, Time: Friday, 10 September 2021 at 4:30pm IST. A link is provided to join the meeting. The sender is Khushboo Bhurat, Indian Patent Agent IN/PA-3747, Patent Executive, Research and Development Department, University of Petroleum and Energy Studies, Bidholi Campus, Dehradun, Uttarakhand-248007. On the right side of the email, there is a "Tracking" section listing participants: KB Khushboo Bhurat (Organizer), DC Dr. Sushabhan Choudhury (Unknown), Roushan Kumar (Unknown), Ravi Kumar Patel (Unknown), MM Manas Ranjan Mishra (Unknown), Dr. Rajesh Maitthani (Unknown), DP Dr. Rupendra Kumar Pachauri (Unknown), Pranava Chaudhari (Unknown), Dr. Amit Kumar Thakur (Unknown), Dr. Deepak Kumar (Unknown), and SB Shashi Bhushan (Unknown).

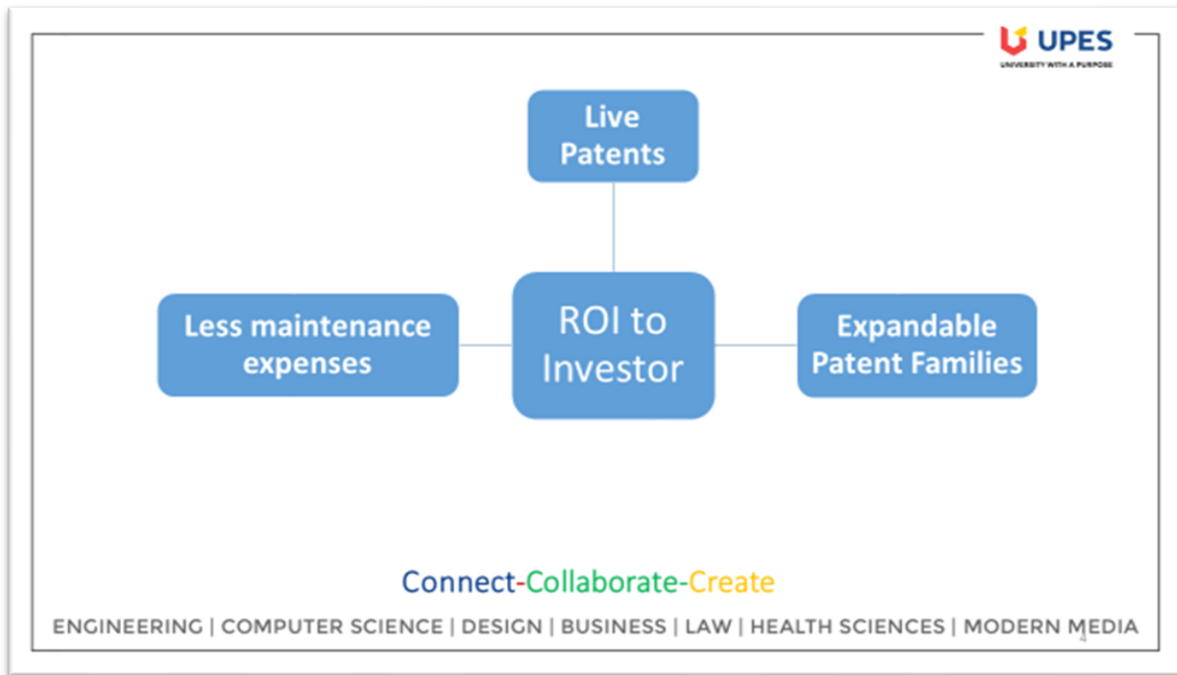
NUMBER OF PARTICIPANTS IN THE MEETING: 26

AGENDA OF THE MEETING:

The meeting was aimed to discuss the brief information about the selected IPs and their market potential.

MINUTES TO MEETING:

The meeting started with the opening remarks given by the Prof. Dr. S.M. Tauseef. He welcomed the investor and provided his insights on the meeting agenda. Ms. Khushboo Bhurat started the presentation with introduction to the vision and mission of the R&D department towards IP protection and shared the statistical data of UPES IP portfolio.



The discussion was taken further with each inventor along with their respective teams giving an overview of their invention.

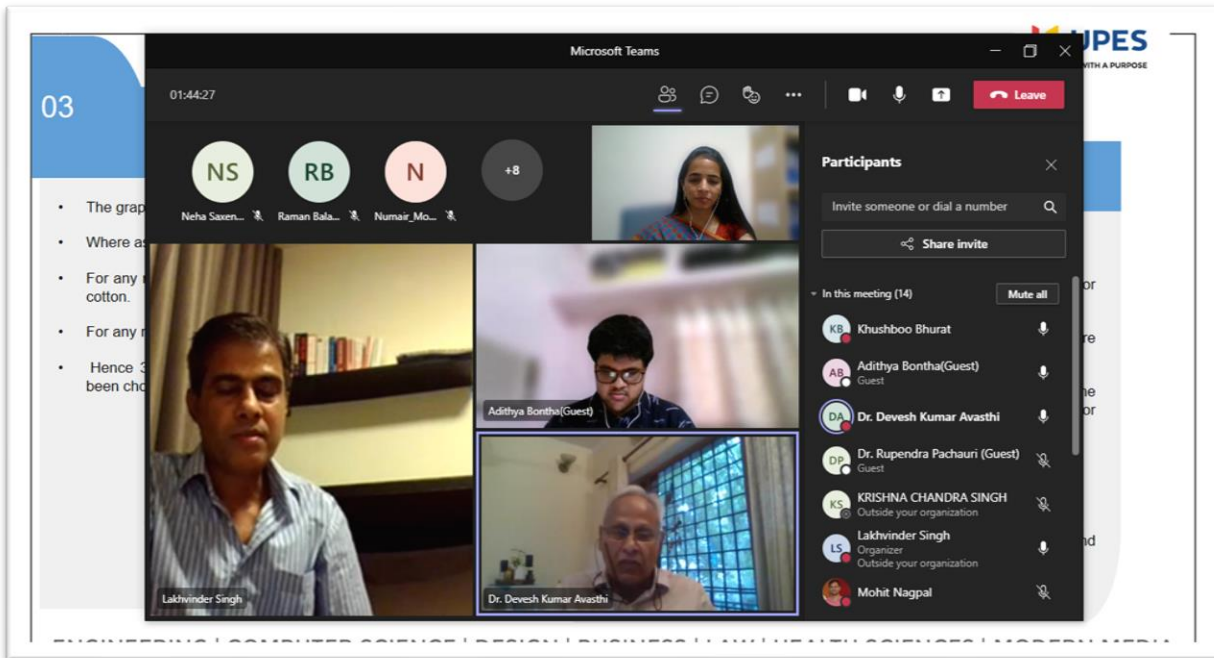
UPES
UNIVERSITY WITH A PURPOSE

- present invention transmits real-time data of the surrounding domains to users at a different location using IoT technology.
- It also enables the users to perform the task in the areas where human intervention is restricted.
- It can be utilized in various applications where robotic arm actuators are used to bomb disarmament, detect choke areas in ventilation pipe, drilling, welding, etc.
- Robotic arm actuators are used as a small size robotic arm that can be mounted on maneuver robots to pass through narrow regions like ventilation pipes to hazardous gaseous chambers.

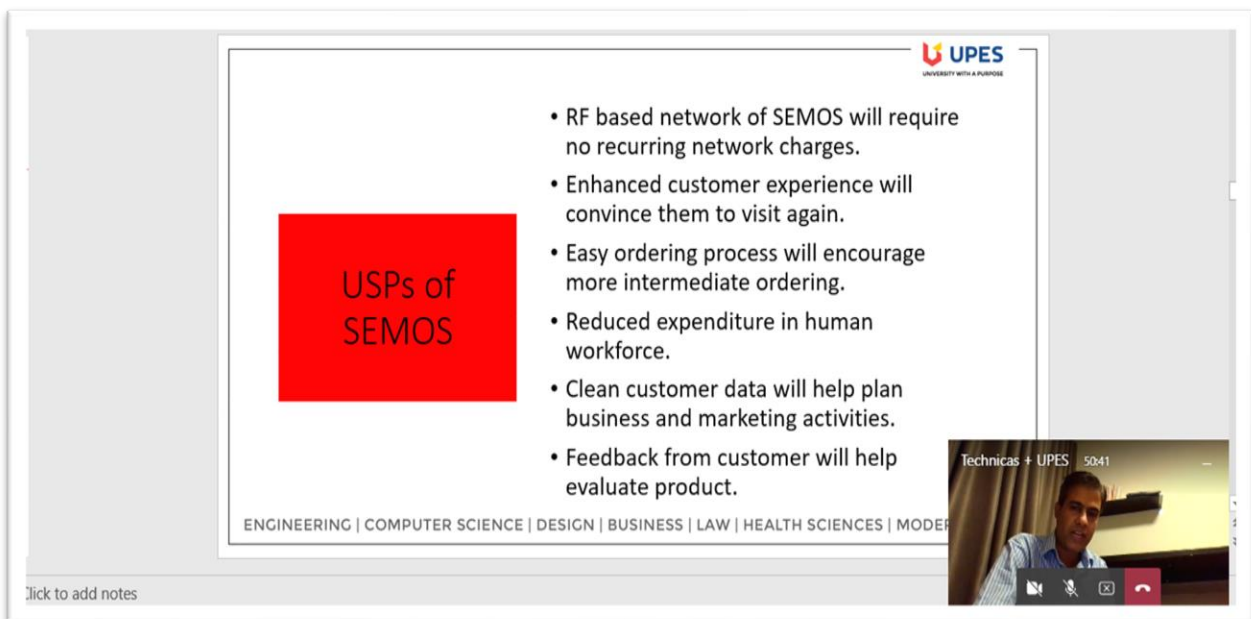
ENGINEERING | COMPUTER SCIENCE | DESIGN | BUSINESS | LAW | HEALTH SCIENCES | MODERN MEDIA

Lakhvinder Singh
Raman Bala (Gu...)

Dr. D. K. Avasthi further developed the discussion with his inputs about the inventions being discussed. Presentation about each IP was followed by Q and A session open for the investor for discussion with inventors. The inventors explained the USPs of their invention and gave the statistical analysis of their features.



The investor shown interest in knowing some of the patent in details while he raised queries about applicability limitations of others.



The investor shared positive feedback about the discussion and promises to share his interest in particular IPs. The meeting concluded with vote of thanks to all the participants and the investor.