

# TEXMiN (Technology Innovation Hub)



## Highlights

National Mission on Interdisciplinary Cyber-Physical Systems (NM-ICPS), Department of Science & Technology (DST) : Established 25 TIHs

CPS : Cybernetics, Mechatronics, Design and Embedded systems, Internet of Things (IoT), Big Data, Artificial Intelligence (AI)

TIH at IIT (ISM): Technology Vertical 'Technologies for Mining' (Exploration & Mining -Technology Innovation in Exploration & Mining Foundation – TEXMiN – A Section 8 Company

IIT (ISM) Dhanbad:

- Rich Mining ~100 years in Mining & Upstream Exploration Heritage
- Natural Resources Backdrop: East India Mining belt provides unparalleled Infrastructure
- Best of the class talent pool and research infrastructure



**IIT(ISM) DHANBAD**



## Quoro Labs

- Developing the systems for the mining and material handling applications.
- Use to analyze and live tracking of the quality parameters of bulk materials.



## Bidaal

- Working on traffic management in mines.
- Sensors which can be installed in the mines and give traffic warning when HEMMs are moving at an intersection.



Climate-B Ventures Pvt. Ltd.  
Building Resilience. Empowering Enterprises.

## Climate-B

- Climate risk assessment of large infrastructures, particularly mines.
- Developing flood modeling simulation in mines to mitigate risk of flooding in mines.



## Incubig

- Using AI/ML algorithm, have created a software-as-a-service platform.
- Gives status of research being done in a company's domain.



## Graphenera Carbon

- Graphene manufacturing and manufacturing of graphene-based products and its supply to the market



## DeepMatrix

- Drone-based solutions
- Data management and analytics of massive Earth Observation data

*Few other Startups in Pipeline for Incubation*

# Centre of Excellence at TEXMiN



- Sandvik Mine Automation Learning Centre (SMAC)
- Dassault Systemes - Mining Technology Excellence Centre in Mining & Allied Industries

