

OCTOBER 2023



. An IIT Alumni Council initiative .



AN INCUBATION PLATFORM
COMBINING A VENTURE
STUDIO MODEL WITH
A TURBO ACCELERATOR

focused on deeptech ventures
for national development

iit alumni council



"IIT Alumni Council is now the most significant global body of alumni across all the twenty-three IITs and partnering Universities. Our collective mission is accelerate the creation and growth of deeptech startups in our target areas.

Our target areas include health, climate change and strategic technologies in the frontier and exponential technology sector.

The Incubator complements our other initiatives in the deep tech economy, such as the research Institute, the advisory Forum and the social impact Fund. Every year we choose a cohort of between three and five startup areas in consultation with the MegaFund. In 2023, we welcome our fourth cohort."

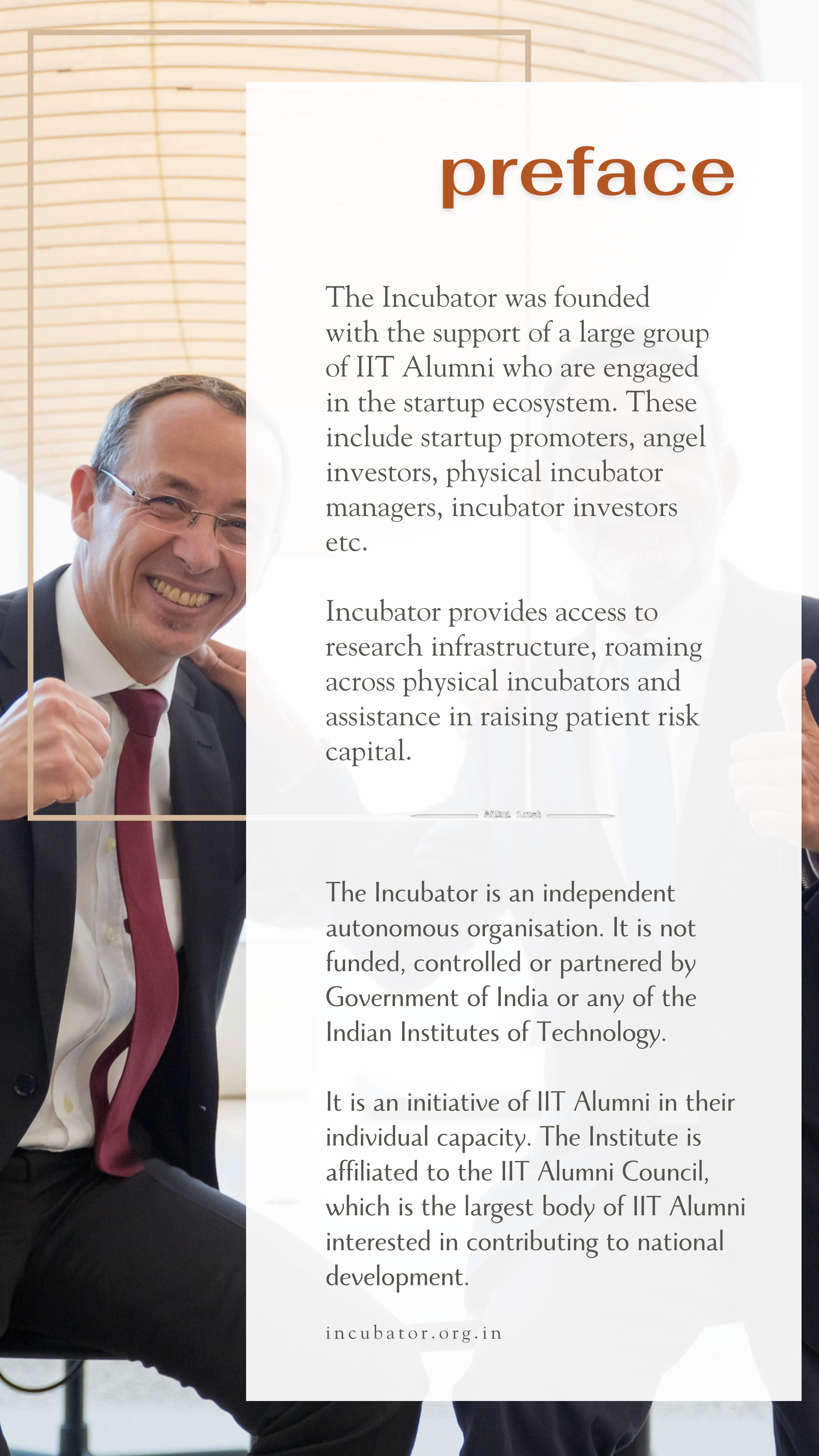
RAVI SHARMA

PRESIDENT &
CHIEF VOLUNTEER

iitalumnicouncil.org

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preface

The Incubator was founded with the support of a large group of IIT Alumni who are engaged in the startup ecosystem. These include startup promoters, angel investors, physical incubator managers, incubator investors etc.

Incubator provides access to research infrastructure, roaming across physical incubators and assistance in raising patient risk capital.

The Incubator is an independent autonomous organisation. It is not funded, controlled or partnered by Government of India or any of the Indian Institutes of Technology.

It is an initiative of IIT Alumni in their individual capacity. The Institute is affiliated to the IIT Alumni Council, which is the largest body of IIT Alumni interested in contributing to national development.

incubator.org.in

By creating and leveraging a nationwide network of individuals and firms engaged in the startup ecosystem - the Incubator aspires to become India's largest venture studio and deeptech venture accelerator.

Identify and prioritise
the development
of key technologies
for the future

1

Commercialise these
technologies and
make them widely
available

2

Price them affordably
so that that they can
do the maximum
possible good

3

4

Deploy them quickly
so as to have the
maximum possible
societal impact



Incubator derives its comparative advantage from

1

Strong interlinkages with the patron members of the IIT Alumni Council, who are global leaders in technology, venture capital and advisory services.

2

Direct reach to IIT Alumni Council global chapters, which inter-connect the largest and most powerful technology community in the world.

3

Formal linkages with the Mission Organisation and facilitation arms of the IIT Alumni Council.

4

Access to a large base of investors, startup promoters, physical incubators & research institutions willing to donate part of their time to this initiative.

platforms

The Incubator is aligned with the six R&D platforms of the Institute:

Nuclear Sciences
Quantum Sciences
AI & Computervision
Electric Transportation
Health & Biosciences
Inclusion & Equality

— *India 2025* —

The six R&D platforms are mutually exclusive and collectively exhaustive to meet the needs of the four main technology segment targets.

Climate change & sustainability
Strategic technologies
Health & wellness
Quality of life enablers

incubator.org.in

Incubator think tank comprises of its members - both individuals and firms.

Institute charter members are mainly from three categories

1

Startup ecosystem players with relevant experience and expertise in the target domains.

2

Experienced industry veterans with experience in product development, evaluation, commercialisation etc.

3

Professionals from sectors like intellectual property protection, research, public policy etc.



The Incubator offers its cohort members with nationwide reach within India and unmatched depth of knowledge and expertise.

The Incubator is organised around annual cohorts



structure

The Incubator is an independent and autonomous institution which is affiliated to the IIT Alumni Council

It acts as a mission facilitator of the Council and is led by alumni with a background and expertise in executing

...

Deeptech startups

Angel Funding

Mentoring

IPR protection

— *Panel Incubator* —

The Incubator Platform was set up as a subsidiary of the social fund of the IIT Alumni Council. PanIIT Incubator – the legal entity hosting the activities of the Incubator is registered under the Companies Act. It does not distribute any dividend. Its surpluses are redeployed for venture studio work. Typically the incubator takes a 15% stake in early stage startups and 3% in revenue generating startups.

membership.iitac.online



Incubator interfaces with

the three Mission Organisations of
the IIT Alumni Council

1

MegaReach - Alumni Outreach

2

MegaLab - Healthspan Enhancement

3

MegaFund - Social Impact Fund

These three Mission Organisations

represent three groups of IIT Alumni



The MegaReach mission comprises of alumni who are corporate executives and industry leaders worldwide



The MegaLab mission comprises of individuals with an interest in health or professional interests in healthcare sector



The MegaFund mission comprises of alumni investors in the social, startup deep tech sectors or in private equity and public equity funds



Incubator also interfaces with

the two Mission Facilitators of
the IIT Alumni Council

1

INSTITUTE initiative which is an applied research organisation modelled on the Fraunhofer Institute.

2

FORUM initiative which is a global professional services organisation which offers project implementation, advisory and automated compliances

Forum, Incubator & Institute

represent three other groups of IIT Alumni

1

The INSTITUTE membership comprises of researchers, scientists & technologists, mostly with a PhD or equivalent qualification

2

The INCUBATOR membership comprises of startups, mentors and other participants in the startup ecosystem

3

The FORUM membership comprises of IIT Alumni who manage or work in professional or technical services firms

megaSpheres

QUALITY OF LIFE INITIATIVE OF IIT ALUMNI COUNCIL



APPLIED RESEARCH



PROJECT EXECUTION



STARTUP ACCELERATOR

The megaSpheres initiative includes three Mission Organisations, and three Mission Facilitators synchronised to achieve its goal - accelerated socio-economic progress through technological & financial interventions.

INCUBATOR incubates idea stage ventures. FORUM facilitates access to strategic resources & growth capital. INSTITUTE helps access research resources & indigenous technologies.

members

Incubator members are organised in four categories on the same lines as the other Mission Organisations of the IIT Alumni Council - Fellows, Charter/Partner Members, Life Members and Associates.

All membership applications are screened and verified by the Forum mission of the IIT Alumni Council prior to being evaluated by the Selection Council. The Incubator expects Charter Members to set aside significant time and resources for voluntary work.

CHARTER MEMBER CATEGORIES

Startup promoters | P

Angel Investors | A

Mentors | M

Others | O

PARTNER MEMBER CATEGORIES

Incubators| I

Research Institutions | R

Patent & IPR | D

Others | O

*Charter members are individuals in their personal capacity, while Partner members are corporates or firms

cohorts

IIT Alumni Council was launched on Independence Day 2019 as the anchor organisation for a global movement of IIT Alumni who were committed to National development. Every year, the Council announces a topic for creation of a cohort with coinvestors and experts. Each cohort has upto six companies.



Incubator acts as the central venture studio for creating startups in defined target areas for:

SUPPORTING socio-economic development of India through technological & financial interventions

PROMOTING Brand India & Brand IIT Alumni

IMPLEMENTING venture capital & startup paradigms for the above

First Cohort . 2020

Holistic Health



ayushca.org



kodoy.iitac.online



shambhala.net.in

AYUSHCA

HEALTH VILLAGE
WITH SUSTAINABLE
HABITATS

ayushca.org



Ayushca is conceptualised as a next-generation, self-contained private biosphere to accommodate up to 50,000 residents. The smart health villages have been configured to fit in three land parcel sizes - 30 acres, 125 acres and 300 acres. IIT Alumni Council proposes to build twenty-five Ayushca Health Villages over the next fifteen years.



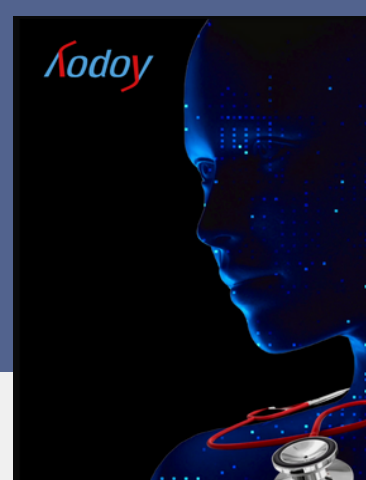
KODOY

DIGITAL TWIN
TECHNOLOGY

kodoy.com



KODOY was conceptualised in the context of the covid pandemic. The kodoy digital platform helps users to achieve their longevity goals by better management of their well-being using digital twin paradigms.



SHAMBHALA

SUSTAINABLE
FORESTRY &
VALUE ADDED
PRODUCTS

shambhala.net.in



Shambhala has been conceptualised in the context of the current climate changes challenges. Shambhala proposes to positively impact 100,000 sq kms of forest area in India and around twenty five million people. Shambhala proposes to create a livelihood ecosystem from the monetisation of forest produce, eco-tourism and carbon credits.



Second Cohort . 2022

Healthtech



platinae.com



kyrogene.com



brewfactory.co.in

PLATINAE ANCHORAGE

AYURVEDA
INSPIRED CUTTING
EDGE BIOLOGICS

platinae.com



Cutting-edge biologics include mRNA technologies which rely on liposomal RNA delivery to catalyse the production of antigens by the human body. This in turn leads to production of antibodies by the body - which help prevent occurrence of the disease.

Platinae emulates the same working mechanism as mRNA by using a combination of topical skin applications, oral ayurvedic medicines and food supplements.

KYROGENE

EPIGENETICS
BASED SICKNESS
REVERSAL

kyrogene.com



— *and* —

Kyrogene stands for master of genes. Kyrogene provides epigene therapy to prevent, manage or reverse autoimmune disorders. The therapy works by preventing the expression of a bad gene or catalysing the expression of a good gene.

Target diseases addressed by Kyrogene are psoriasis, type 1 diabetes, Lupus, Hashimoto, multiple sclerosis, rheumatoid arthritis etc.

BREW

PRECISION
FERMENTATION
TECHNOLOGY

brewfactory.co.in



BREW has been conceptualised in the context of the covid pandemic. BREW has developed a microbial platform based on precision fermentation which can be used for a wide range of applications from mRNA in healthcare to microbial reactors for bioconversion and methanation.



Third Cohort . 2022

Energy Transition

 **COAL²**
CNG

MICROBIAL
METHANATION OF
COAL TECHNOLOGY

coal.iitac.online



SITADAL
TECHNOLOGIES

EFFICIENT HEAT
TO ELECTRICITY
CONVERSION

sitadal.com



NET ZERO CLEAN
PERPETUAL
HEAT SOURCES

ionique.iitcouncil.org

COAL2CNG

MICROBIAL
METHANATION OF
COAL TECHNOLOGY

coal.iitac.online



COAL2CNG initiative envisages converting underground coal into CNG at a global scale with an ambition to make India the largest producer of CNG within ten years.

The energy basket envisaged includes coal, thorium and solar with all the coal being converted to CNG and thorium being used as a fuel for nuclear energy.



SITADAL TECHNOLOGIES

GREEN HYDROGEN
TECHNOLOGY BASED
ON THERMOLYSIS

sitadal.com



SITADAL
TECHNOLOGIES



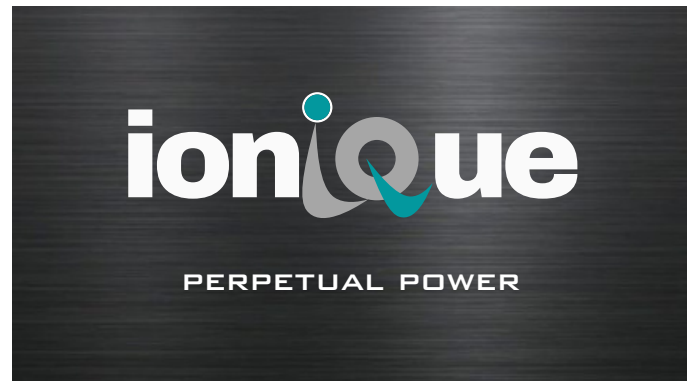
Sitadal is building a demonstration power plant based on ai assisted thermolysis of water to produce hydrogen and oxygen without any electricity at a heat energy consumption of 45 KWH per kg of hydrogen.

The gases are combined in an Ionique fuel cell to produce 32 KWH of electricity per kg of hydrogen.

IONIQUE

ADVANCED
PERPETUAL POWER
SOURCES

ionique.iitcouncil.org



Ionique is working to create 24/7 high quality heat sources which are net zero and do not emit any greenhouse gases

Ionique uses liquid thorium fuel to produce heat for long endurance applications such as off grid EV charging stations, high endurance vehicles used for surveillance and underwater mining and various other robotic applications.

Ionique engine modules are rated for 1.28 MW electric output or 3 MW heat output. These modules are capable of air independent operations and thus can be used on Mars or underwater.

INSTITUTE OF AI

FOCUSED ON THE
USE OF AI IN ENERGY
TRANSITION &
CLIMATE CHANGE
READY HABITATS.

ai.iitac.online

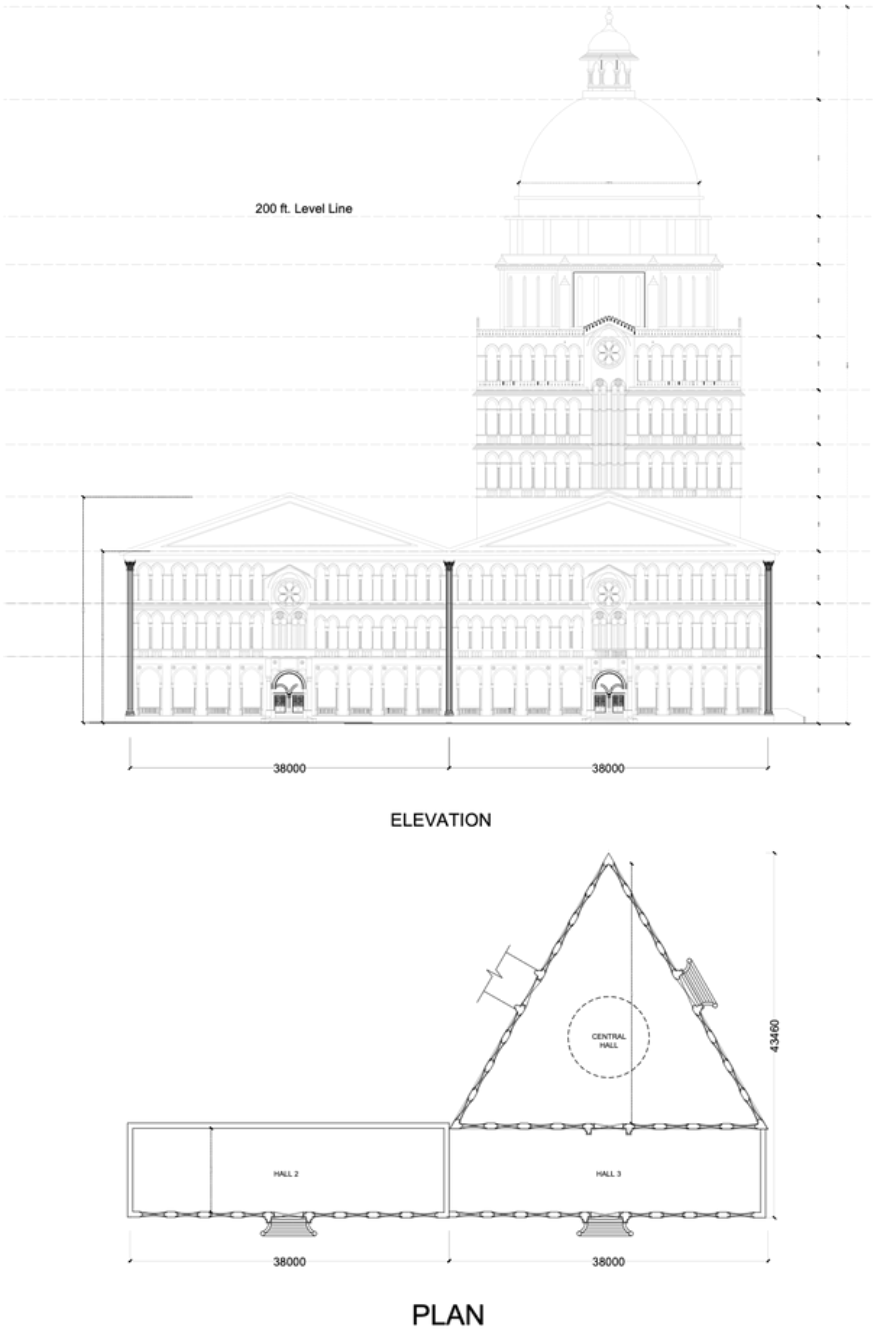
INSTITUTE OF 

—  —

The Institute of AI is a part of the IIT Alumni Research University. The first project of the Institute is to build a “global warming” ready, “earthquake proof”, stone building constructed by using frontier technologies like 3D scanning and robotic assembly to replicate designs and construction techniques of yesteryears - but built completely using robotics and cobotics assisted by AI.

The project will build on similar concepts used by groups like BAPS Akshardham to construct ornate temples globally.

INSTITUTE OF AI



Fourth Cohort . 2023

Ease of Doing Business



batuatech.com



gbtech.in



anytimeworld.org



cvchk.com

BATUATECH

AUTOMATED
PROJECT FINANCIAL
MANAGEMENT SYSTEM

batuatech.com



BatuaTech conceptualised as a fully automated AI powered stack for financial management of projects, startups & social initiatives, is a cloud based SaaS solution, fully compatible with legacy accounting systems like Tally. It has been built ground-up for automated concurrent audit & compliance filings, and banking systems interface. The objective is to minimise effort, improve efficiency, contribute to better compliance, reduce leakage, and make doing business easier.

Forum acts as the sole advisor to the BatuaTech project. Work related to creation of the backend cloud software has been completed.

ATXM

DISTRIBUTED LEDGERS
INTEGRATED WITH
BANKING/ PAYMENT
PLATFORMS

anytimeworld.org



Anytime Transaction Machines is a blockchain based distributed ledger interfaced with the cloud hosted accounting system on one end and the banking platforms on the other. This allows ATXM to create sub-accounts for employees, suppliers, customers and other business associates.

By doing a virtual debit or credit to the associate accounts based on blocking of banking limits instead of drawing on them, the platform helps companies to reduce working capital requirements and cost.

GBTECH

CLOUD BASED
ACCOUNTING & ERP
PLATFORM FOR STARTUPS
& LISTED COMPANIES
SEEKING EARLY STAGE
LISTING

gbtech.in



GBTech is creating a cloud based platform which is directly compatible with existing software packages like Tally, Oracle and SAP to import legacy data.

The system interfaces with the Forum super app to provide a single window access to users for a wide gamut of services including but not limited to AI assisted statutory audit, fully automated tax and compliance filings, automated invoicing and AI managed book keeping.

GB Tech is a global platform with provisions for customisation depending on regulatory regimes in the host countries of the users.

CV

CV PROVIDES THIRD
PARTY AUTHENTICATION
OF EDUCATION & WORK
EXPERIENCE OF PREMIUM
COLLEGE GRADUATIONS

CVchk.com



CV is creating India's largest database of premium college graduates - including the IITs and IIMs.

Applicants can use their CV link to apply for jobs, funding or other memberships. The CV links are the format cvchk.com/name.surname and can be verified by employers. For confidentiality purposes, the CV can also be password protected or anonymous with format cvchk.com/abc.pqr

The third party verified CVs assure future employers of the authenticity of CVs submitted by applicants.

connect & memberships

mailbox@incubator.org.in

SMS . WA/chatbot

+1 650 900 8833

*Apply for membership at
applications@iitalumni council.org



MEMBERSHIP

Email your application along with your

1. LinkedIn link and/or website,
2. Education (college, year & course etc. for Charter members)

OR Company details (for Partner members)

3. Corpus donation payment details

Donation remittance to

PanIT Forum | IDBI Bank

Account No | 0011102000085065

IFSC IBKL0000011 | SWIFT IBKLINBB010

For details, please visit
membership.iitac.online

iitac.online



IIT ALUMNI COUNCIL

A2019 - 2022
3RD ANNIVERSARY

anniversary.iitac.online



The IIT Alumni Council invested most of its resources in its third year to set up and initialise the MegaLab mission which housed all the healthcare related projects of the Council. The Institute provided research support to these ventures through its distinguished fellows.

Institute acts as the inhouse research coordination organisation for the Council. The IIT Alumni Council is a Section 8 non-profit company.





Incubator refers to PanIIT Incubator Pvt Ltd, an Indian company registered under the Companies Act, its network of partner member firms, charter members and their related entities. Institute and each of its member firms are legally separate and independent entities.

Please see incubator.org.in for a more detailed description of the Institute and its member firms.

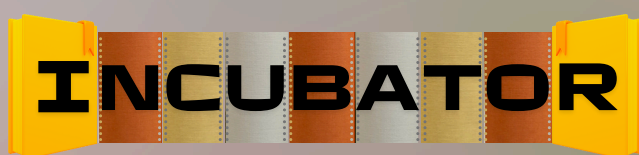
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