InnoVenture

Design. Create. Disrupt.

PHASE 2 BRIEFING

MMI
SAF MILITARY MEDICINE INSTITUTE

CHAMPS INDUSTRIAL

INNOSPARKS
AN ST ENGINEERING OPEN LAB

SJ SURBANA JURONG

Sponsors & Supporters

NUS National University of Singapore | Institute for Engineering Leadership
Faculty of Engineering

PSA
The World's Port of Call

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Teams Advancing to Phase 2

Digitrolley	Semiconducting Unicorns (SU)	The Pace Makers	Team Grand
WAF	Wheelift	Team ZAZ	Others
Innoventurers	Team G.A.I.N.	Swengdish	Indi-Genius
Jango	Wewchair	Buendia	Project Blue
MakerChange	STACK	DB1084	Watersavers
Hard Hats	BluBox	SEC	Engin Bros
Fortitude	Innoventers	Crane	Lit Fam
Innovation & Design	WheelSparks	MICC Engineers	Frostlivan
InnovAID			

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Expectations

Our belief:

You're a prospective startup!

You're all entrepreneurs!

Get ready to be treated like one ☺

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What we expect from you

- Pro-active attitude
- Work actively with mentors, advisors and company representatives
- It's still a competition; just like real life entrepreneurship!
- Be frugal, resourceful & creative
- Stick to agreements and deadlines
- If 'stuck', let us know! – we can help

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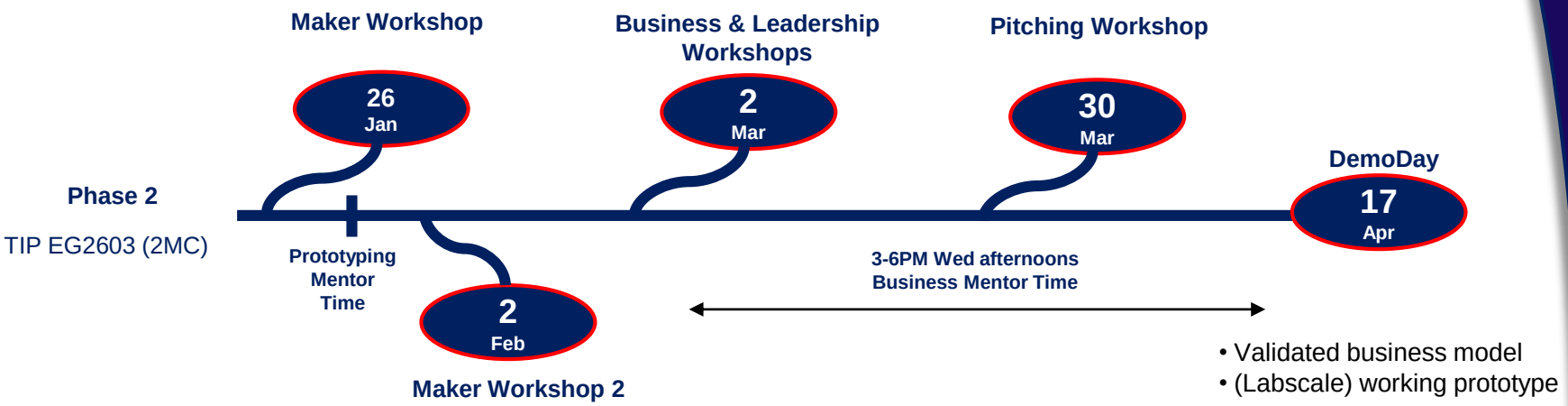
Process



Maker Workshop (Full day):
- Various maker workshops to enhance maker skills

Maker Workshop 2 (Full day):
- Various maker workshops to enhance maker skills

Business & Leadership Workshop
- Build on Phase 1 to expand on business models and financing
- Leadership in teams – from discovery to delivery

Mentor Time
- Teams meet with Prototyping or Business mentors throughout the process
  - **Business – Fortnightly Wednesday 3-6pm - Start in March**
  - **Prototyping - Fortnightly Wednesday 1-6pm - Start in December**

Demo Day:
- Final Pitches to a panel of industry
- Continued support for the promising teams with viable solutions after the InnoVenture ends

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TIP Credits

EG2603 TIP (2 modular credits)

- Attend workshops
- Attend mentor sessions (Prototyping & Business)
- Pitch at Demo-Day
- Reflection Assignments after mentor sessions

- Enrolment from the **beginning of the semester (January 2019)**
  - Requires commitment!
  - S/U grading; meet requirements to earn it!

- Withdrawal during phase 2 after normal registration will reflect as “F” or “C/U” grade

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Rules

- InnoVenture reserves the right to discontinue a team if:
  - Team is falling behind agreed upon schedule
  - Teams are not present for mentor meetings and workshops

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Resources

Agency for Science, Technology and Research
SINGAPORE

NUS National University of Singapore

NANYANG TECHNOLOGICAL UNIVERSITY

Expertise/Solutions
- University Profs/Techs in Singapore
- Problem Statement Companies
- Mentors: Business & Prototyping

Prototyping
- Central Workshop at NUS (http://www.eng.nus.edu.sg/edic/central-ws.html)

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Tech Guidance

- Find profs/mentors
  - Link up with Prof's research for novelty in technology
  - Possible usage of Prof's lab and resources

- Andi Sudjana Putra
- Elliot Law
- Lim Hong Wee
- Khoo Eng Tat
- Others…

Business Guidance

- Find Industry mentors
  - Advices from industry mentor's real world experience
    - Business models
    - Supply chain knowledge
    - Customers!

- Vinod Vasnani
- Lim Soon Hock
- Prof Hang Chang Chieh
- Soon Hwee Ping
- Others…

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Access to PS Reps

- Teams will have direct access to PS representatives
- CC the InnoVenture lead in all mails
- 1 main contact person per team
- Compile sufficient useful questions before sending mail to avoid spam
  - Please be specific in your questions

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Intellectual Property

- We are going after novel…this provides an opportunity for IP
- To protect your novel solutions at public events we will have to file invention disclosures and possibly patents
- NUS is the legal owner of the invention and patent rights
  - Handled by Industry Liaisons Office (ILO)
  - Start-up can license the patent from ILO into the company
- Patent filing decision is complex

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Budget Provided

- Based on your proposal
  - Funding is NOT for Transportation, Salaries or for Third parties to do the manufacturing
- Budget is provided on a reimbursement basis. I.e you have to pay first and you claim it back from NUS.
  - Few forms need to be submitted alongside the ORIGINAL receipt
- For large, costly expenses; invoices can be sent to NUS. Discuss first with the InnoVenture coordinator
- Remember: ONLY need to demonstrate your MVP (labscale working prototype) in Phase 2

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Next Step

If your team wants to continue:

1. Add/replace teammembers (up to 5 per team)

2. Signup for Phase 2
    1. Link: https://mysurvey.nus.edu.sg/EFM/se/543BE5C251E588A7
    2. Indicate interest in TIP phase 2

3. Add yourself to InnoVenture2018-Phase 2 IVLE

4. Submit documents in IVLE by **25 November; 5pm**
    1. Pitch (you may update if you like)
    2. Detailed Bill-of-Materials for prototyping in Phase 2 (Excel)

5. Teams to meet with Mentor to seek budget approval from 1st week of December

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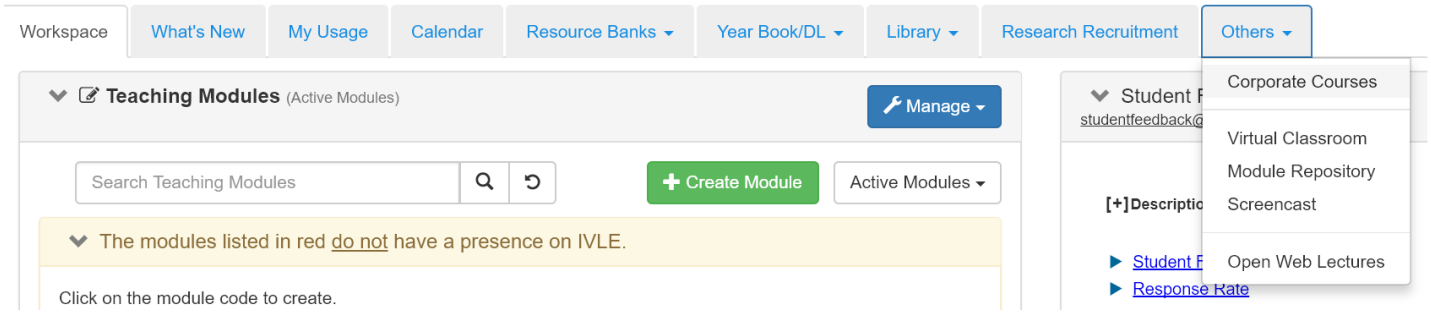
Enroll for InnoVenture (Phase 2) on IVLE

Access slides, problem statement videos, announcements and other content in your IVLE

1. **After registration for InnoVenture**
2. **Login to IVLE → Workspace → Others → (dropdown menu) Corporate Courses**
3. **In the list find "Innoventure2018-Phase2"**
4. **Manually enroll yourself**



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Main contact

Vinod Vasnani vinod@nus.edu.sg
Lim Hong Wee hongwee@nus.edu.sg

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Questions

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Mentors

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Mentor/Programme Lead

Adjunct Associate Professor Vinod Vasnani

Vinod has over 20 years of experience as an entrepreneur and an intrapreneur having started his career at Emerson Process Management in R&D. Subsequently, he was involved in Product Management where he was involved in R&D and the roll out of its market leading DeltaV control systems in Asia Pacific. In late 1999, he joined Accellion soon after it was founded. There he built and worked with a diverse team of engineers to deliver market leading secure distributed file transfer used by thousands of enterprises today. Vinod is currently a co-founder of Qryptal which is focused on developing a platform for document security and integrity.

At NUS he works and coaches teams through IEL initiatives: InnoVenture, TechLaunch and Enterprise Development. He has a keen interest in Innovation, Leadership and Technology. He is interested in what drives the learning to increase human capability and performance in teams and organizations.

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Mentor

Professor Hang Chang Chieh

Following a stint in Shell, he entered the NUS Faculty of Engineering as an academic and was subsequently appointed as deputy vice-chancellor (research and enterprise) in 1994 - during which time he had to oversee the university's transformation from a primarily teaching institution to one that is research intensive. In parallel, he became the founding deputy chairman of the National Science and Technology Board (NSTB) in 1991, a part-time position he held until 1999. During 2001 to 2003, Prof Hang was seconded to NSTB as its Executive Deputy Chairman to consolidate all the non-bio research institutes under the Science and Engineering Research Council, renaming NSTB as the Agency for Science, Technology & Research (A*STAR) in the process. He also pioneered the establishment of the Grow Enterprise with Technology Upgrade Programme (GET-UP) to transfer know-how and manpower from A*STAR research institutions to local small-and-medium enterprises.

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Mentor

Adjunct Professor Lim Soon Hock

Prof Lim has more than 30 years of experience as a board member, CEO, technopreneur and private investor, across various highly competitive industries in a global environment. He is best known as the former Vice President and Managing Director of Compaq Computer Asia Pacific, for taking the company to US$1 billion from under US$30m – in just seven short years. Mr Lim is currently the Founder and Managing Director of PLAN-B ICAG Pte Ltd, a boutique corporate advisory firm, which he set up in 1996. He has been a member of the panel of judges for various business plan's competitions, for example Start-Up Singapore, Singapore Prestige Brand Award, SMU's Master of Innovation Programme's Final Capstone Presentations, SiTF Awards 2016 and Raffles Business Symposium, to name a few. Mr Lim is also on the mentorship panels of the Singapore Business Federation and DBS Business Class and SMU's Final Capstone Project Presentations.

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Mentor

Dr Soon Hwee Ping

Innovative scientist, who has gained 7.5 years experiences in industrial research. With a unique combination of scientific and business approaches, she has successfully attracted funding from business and government sectors to drive her research ideas in lab to several marketable products in air pollution sensing and purification technologies for homes and automotive. Having understood the importance of both technical and business competencies in future fast-changing work environment, she is also enthusiastic in contributing to the new university curriculums that prepare students for the great challenges in a VUCA world.

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