

**AI SINGAPORE**

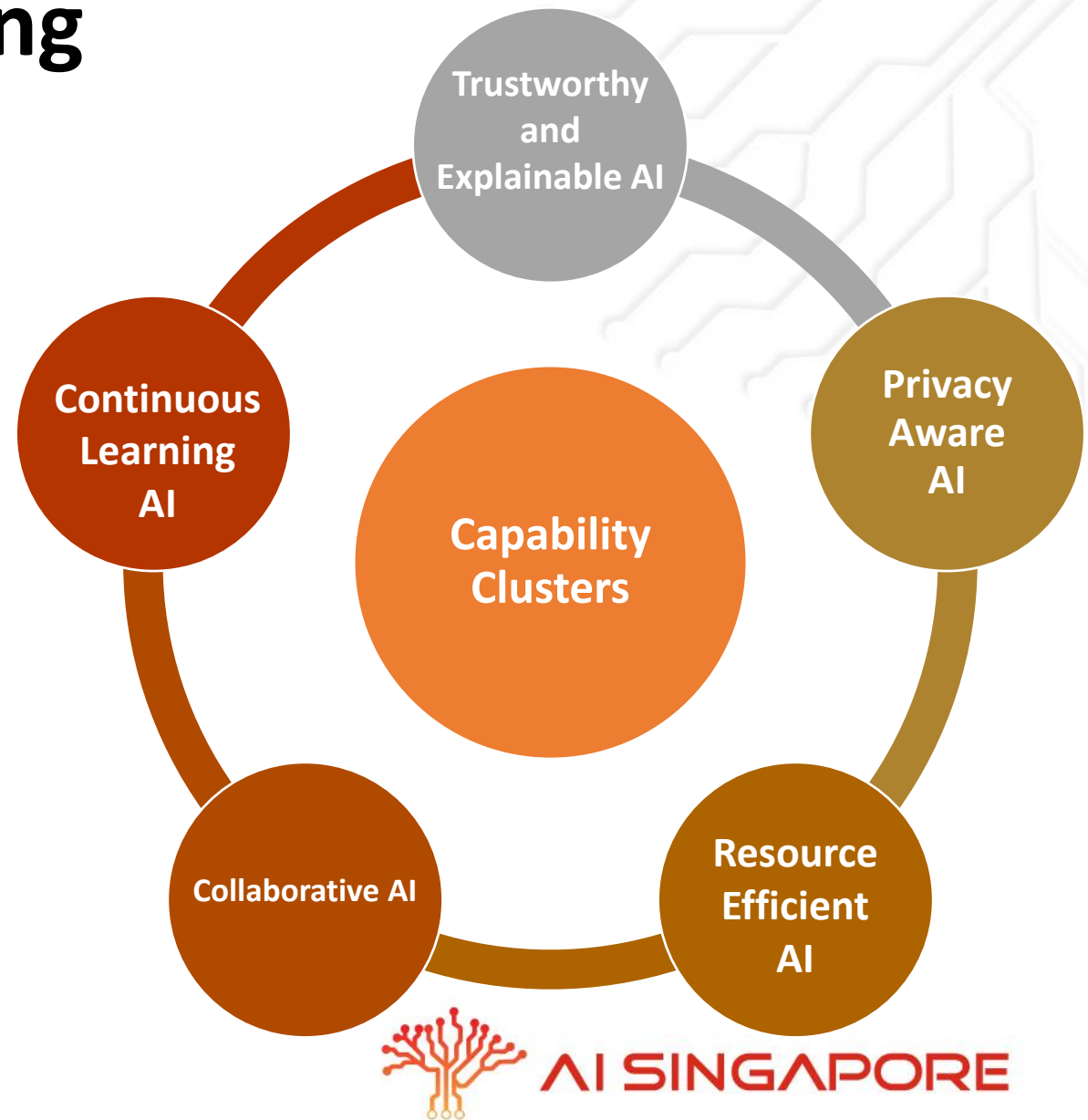
## AISG Research Grant Call 2020 Briefing

17 March 2020

Last Updated: 09 April 2020

# Targeted Capability Building

- Trustworthy and explainable AI
  - Boost AI adoption
  - Build on Singapore's "trust" brand
- Privacy-aware AI
  - Demand from regulators and consumers
  - Learn from sensitive datasets, while preserving privacy of individuals
- Resource-efficient AI
  - Small country – small dataset
  - Learning from small but quality data-sets
- Collaborative AI
  - Strengths in NLP and diversity as a testbed
- Continuous Learning AI
  - Autonomous incremental learning AI towards Artificial General Intelligence



# Grant Call 2020 – Mapping to Target Capabilities

## Collaborative AI



### AI for Collaborative Decision Making

*Human-AI and AI-AI collaborative systems*

- Human modelling for collaboration – Intentions, Goals and Behaviours
- Complex Decision Making Under Uncertainty
- Communications and Interactions

## Explainable AI



### Trustworthy and Explainable AI

*Development, assessment and certification of trusted AI system*

- Safe, Fair and Robust AI system development
- Transparent/explainable AI system development
- Explainability and Trust (Safe, Fair, Robust) Assessment

## Resource Efficient AI



### AI for Design & Discovery

*AI learning from small data enabled by common sense, design rules, laws of physics and human knowledge*

- AI understanding of design and creation
- Human AI co-design
- Knowledge representation with complex priors/measurements
- Science-inspired /physics-based AI systems/models



# Proposals Evaluation Criteria

- **Single Theme proposal**
  - Clear focus of a theme
- **Multi-disciplinary**
  - Experts from various subfields of AI
- **Strong International Collaborators**
  - Covering the lack of expertise within the team
- **Focuses on Fundamental AI Research**
  - Advance the state of the art of AI instead of applications and deployments using known AI techniques
- **Novelty of Research Directions**
  - Ground-breaking research work
- **Academic Significance**
  - Aims for top international AI conferences (e.g. NeurIPS, ICML, CVPR, ICCV, ACL, AAI, KDD, to name a few)



# AISG 2020 Research Open Grant Call



- **Funding**

- Between S\$5 million and S\$10 million
- Up to 5 years



- **Format**

- **Stage One:** White paper / Letter of Intent (LOI)
  - Shortlisted by the AISG Scientific Committee and AISG members
- **Stage Two:** Full proposal + Presentation
  - Assessed by AISG appointed International Evaluation Panel

# Key Dates (UPDATED)



- **Whitepaper Call**

- 17 March 2020 – 6 July 2020\*

\*Respective institution's application deadline may differ from AISG's deadline.

- **Whitepaper Call Result + Invite to Full Proposal**

- 5 August 2020

- **Full Proposal Development**

- 5 August 2020 – 30 Sept 2020 (min 8 weeks)

- **Full Proposal Presentation / Evaluation**

- Early December 2020 (1 day)



# Submission Process - Whitepaper

- **Dates**

- 17 March 2020 – 6 July 2020\*

\*Respective institution's application deadline may differ from AISG's deadline.

- **Online Portal**

- 15 June 2020, 12pm

- **Key Documents for Submission**

- Online Application Form @ [aisingapore.org/research/](https://aisingapore.org/research/)
- PDF of Application Form
- Annexes
- Endorsement from IHL/RI

# Other FAQs:

- **Can we budget in Research Scholarships (RS) for PhD?**
  - Yes, you can budget RS in your proposed budget. Please refer to the website on the latest form.
- **Are the funds allowed to fund overseas collaborators?**
  - The funds are to be funded for Singapore-based research.
  - You may consider allocating a sum for visiting professor(s), but their salaries are not fundable and non-research related expenses. Please refer to Annex A on the Guidelines for the Management of Competitive R&D Grants (AI Singapore), there is a section of non-fundable items.
  - However, we have plans to seek co-funding from other organisations and are currently in negotiation. Other organisations funding may be able to fund overseas entities but it will only be announced when the details are confirmed, ideally, before the full proposal submission.
- **Why has the deadline been extended?**
  - In view of the COVID-19 Singapore's circuit breaker measures in April, we would like to offer an additional month of extension of the deadline so that researchers and administrators have sufficient time to prepare quality proposals.







# Thank you!

For the details of the grant, visit:

[aisingapore.org/research/](https://aisingapore.org/research/)

Documents will be available from

17 March 2020, 12:00

