

Growing Enterprises SO

Briefing for Intelligent Web Crawler Outcome-based Procurement

20 Jan 2019





Important Notes

- Register Attendance
- Drop your name card
- No photography & video recording



- Briefing Slides will be published in Gov-PACT portal*
- Please provide your name and company name before asking questions.

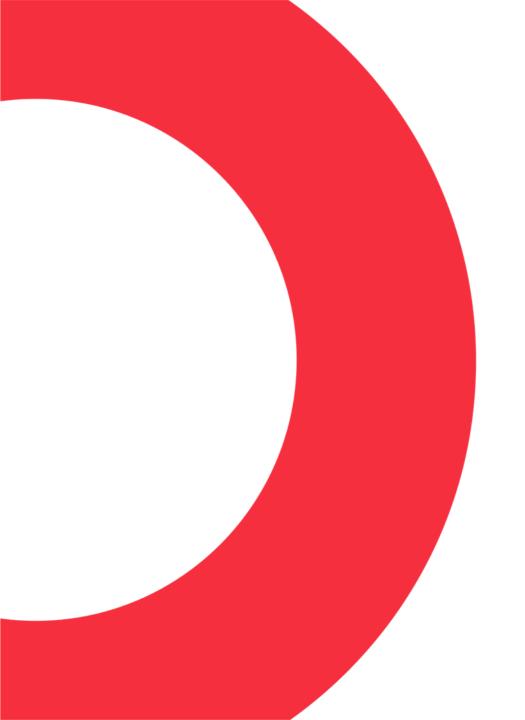
 $^{*\}underline{https://gov-pact.ipi-singapore.org/grant-call/enterprise-singapore-innovation-call-seek-solutions-intelligent-web-crawler}$



Tender Key Dates

Activities	Dates
Tender Open Date	8 January 2020
Tender Close Date	28 February 2020
Tender Briefing	20 January 2020
Clarifications Close Date	21 February 2020

^{*} Submission strictly by Gov-PACT portal online. No hardcopy will be accepted





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Introduction to StartupSG Network



ENTERPRISE SINGAPORE











The intent is to:

- 1 Strengthen linkages among the players within the tech startup ecosystem; and
- 2 Become a one-stop portal for information and data for startups, investors and accelerators
- Be a key source of data to draw insights and monitor growth of the SG startup ecosystem

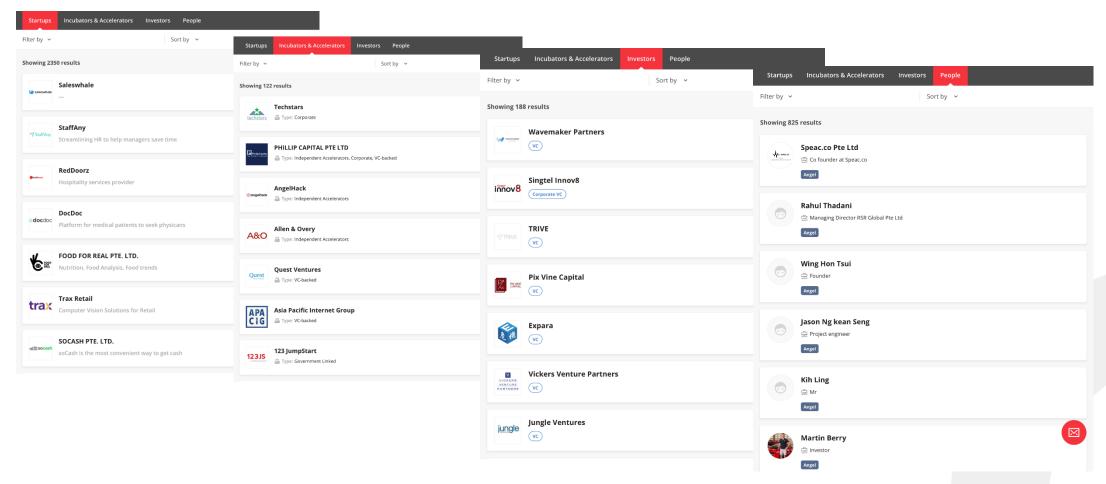








To date, there are 3,200 tech startups & 400 investors and accelerators on the network





SSN Startup Profile

Data Points to be produced

General Information

- Logo
- Official website
- Sector
- Market presence (e.g. Singapore)
- Funding stage
- Social media
- Date incorporated
- Company email
- Contact number
- 10. **Employee Range**
- 11. **Company Description**

Team

Founder and key management (name, designation, email)

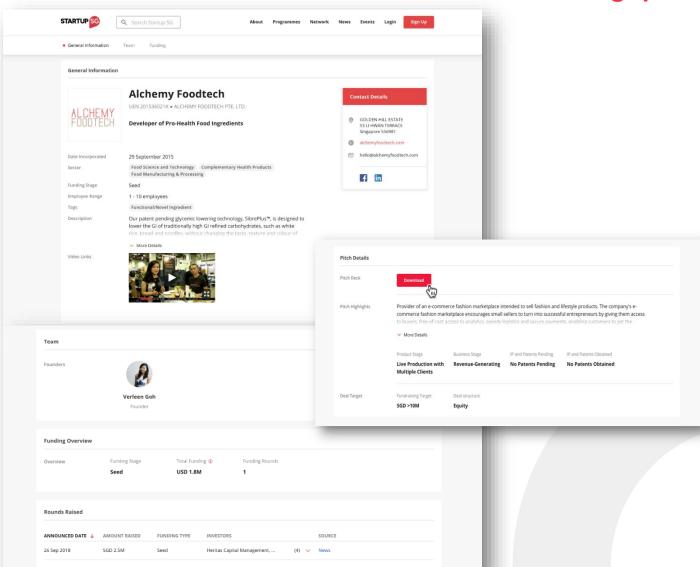
Rounds Raised (multiple rounds, including acquisitions)

- Date
- Amount raised
- **Funding stage**
- Investor name
- 5. Source

Pitch details

- Latest valuation (date, valuation amount, source)
- 2. Revenue
- Business model (B2B, B2C etc)
- Key partners & customers for R&D collaborations
- Intellectual property & patents (number of patents obtained) 5.
- 6. News





SSN Investor Profile (e.g. Venture Capital, Private Equity, IHLs, Government-linked, Crowdfunding

Enterprise Singapore

Platforms, Corporate VCs, Angels, Family Offices)

Data Points to be produced

- 1. General Information
- 2. Logo
- 3. Official website
- 4. Company email
- 5. Contact number
- 6. Social media
- 7. Date incorporated
- 8. Year established
- 9. Employee range
- 10. Market presence (e.g. Singapore)
- 11. Investor type
- 12. Company Description

Team

1. Founder and key management (name, designation, email)

Investment overview

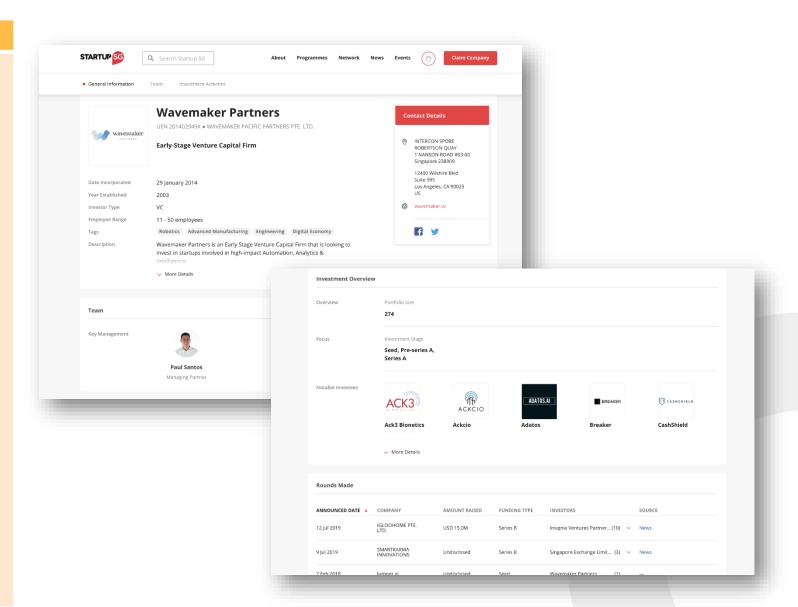
- 1. Portfolio size
- 2. Focus investment stage (e.g. Seed)
- 3. Notable investees (logo, UEN or ACRA registered name)

Rounds Made (multiple)

- 1. Date
- 2. Company invested
- 3. Amount raised
- 4. Funding stage
- 5. Investor name
- 6. Source

Fund Overview

- 1. Fund name
- 2. Fund size
- 3. Investment range & currency
- 4. Sector focus
- 5. Market focus





SSN Incubator & Accelerator Profile

Data Points to be produced

General Information

- 1. Logo
- 2. Official website
- 3. Incubator type (e.g. Institutes of higher Learning)
- 4. Company email
- 5. Contact number
- 6. Social media
- 7. Date incorporated
- 8. Year established
- 9. Incubation Model (e.g. Early stage acceleration)
- 10. Countries Present (e.g. China)
- 11. Employee Range
- 12. Company Description

Team

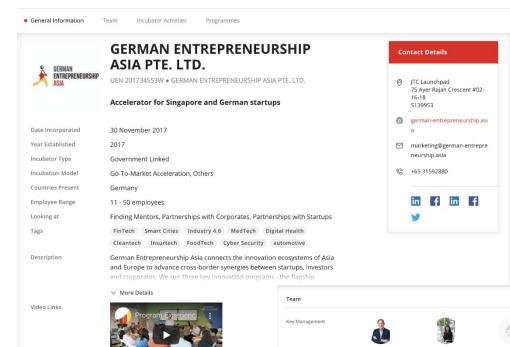
1. Founder and key management (name, designation, email)

Incubation Activities

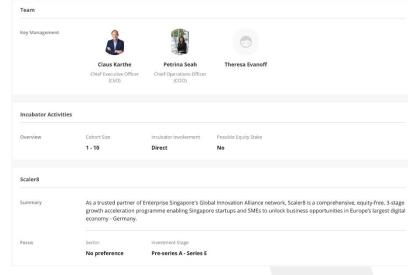
- 1. Cohort size
- 2. Investment (Y/N) (If Y, give range and currency)
- May take equity (Y/N)
- 4. Incubator involvement (Direct/Indirect)
- 5. Notable incubates (logo, UEN or ACRA registered name)
- 6. Global presence (Y/N)(if Y, list countries)

Programme (multiple)

- 1. Programme name
- 2. Description
- 3. Sector focus (list sectors)
- 4. Investment stage focus (e.g. Seed)

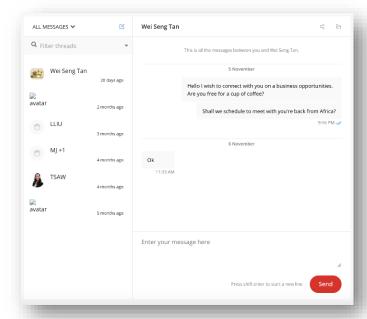


More Details

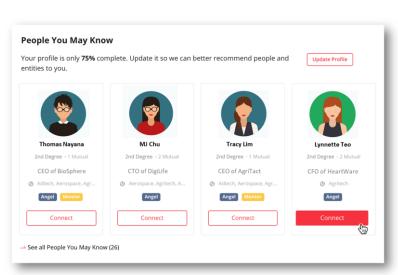


Other functionalities

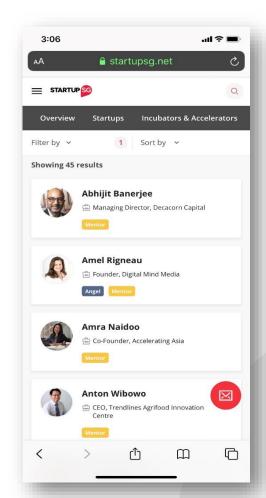




Connect & Messaging to facilitate interaction amongst players



Recommendation Engine to help users grow their network

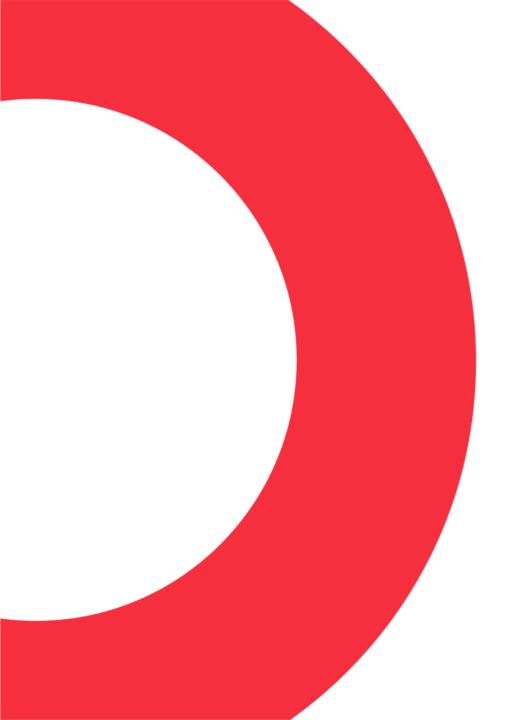


Founders, Angels & Mentors BETA



To establish SSN as a trusted source of startup information, we need to ensure data is timely, accurate and complete

- The innovation call provides an opportunity to automate data collection and curation by tapping on technologies.
- When done well, the solution should be able to...
 - 1) Increase accuracy and objectivity of data by crawling numerous trusted sources within short time frame for validation.
 - 2) Improve timeliness of data by extracting information and updating SSN profiles.
 - 3) Improve and maintain consistency in quality of data even as the SSN community continues to grow.
 - 4) Produce insights from data.





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Tender Information







Tender Scope

- ☐ The IWC should be able to increase the accuracy, timeliness and consistency in quality of data on SSN through the following scope:
 - Extract and provide continual updates to the data points defined by ESG for all entities on SSN from trusted online structured or unstructured sources using, but not limited to, Natural Language Processing (NLP) technology.
 - Conduct data exchange and integrate with, but not limited to, SSN.
 - Achieve 80% accuracy rate upon production deployment, and improve accuracy of the data points updates based on user feedback via machine learning.



Tender Scope (Cont'd)

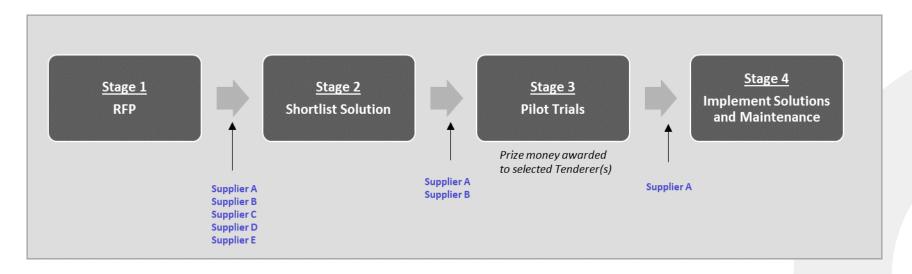
- ☐ The solution shall also be able to produce curation of insights:
 - Alert on new entities (such as startup/investor/incubator & accelerator) relevant to the local tech startup ecosystem that are not yet on the Startup SG Network (SSN).
 - Alert on entities that have ceased operations.
 - Relationship insights derived from the crawled data.
 - Verify claims made in SSN profile for the following categories of the claims. (e.g. Solution needs to identify claims related to categories identified below from SSN profiles, then validate against online sources that are related to the claim but are not yet defined for the crawler.
- □Allow dynamic addition of extra Data Points to crawl. Such addition shall be self-helped by ESG officer without the need for additional development effort.
- Recommend new credible sources to crawl from for ESG admin to review.
- □ Provide a set of Application Programming Interfaces (APIs) for integration with SSN for sending the produced Data Points and Curation of Insights to SSN & User Interface (UI) for SSN user to provide the following feedback back to the Solution so that Data Points updates accuracy can be improved over time.



What is an Outcome-Based Procurement Approach?

- In the OBP process, agencies state their problem statements, desired capabilities and performance results to be achieved <u>without</u> specifying the technologies or solutions.
- Agency can co-develop/co-innovate with potential supplier.
- This process can also be used to refine prototypes and requirements.
- Using this process, agencies would be able to exercise the option to proceed to deployment after successful proof-of-concept/ trials without a separate tender/ quotation.

OBP Process:





Tender process (Outcome-Based Procurement)

Stage	Remarks	
1. PilotBaseline scopeCo-Innovation	 Up to 2 shortlisted tenderers with potential disbursement of prize money of \$50k* each Selected Tenderer(s) will receive Letter of Award to commence the Pilot Trial *30% of \$50k to be disbursed upon receipt of Letter of Award for Pilot Trial, and 70% of \$50k to be disbursed upon completion of the Pilot Trial. *Tenderer is encouraged to prepare a demo to demonstrate the capabilities relevant to, but not limited to, web crawling and text mining of unstructured text. 	
 2. Implementation & System Maintenance for 5 Years Main scope Co-Innovation Integration with SSN 	 Procurement to onboard the final solution Suppliers to quote for this stage as part of RFP submission Suppliers can revise the quote if there is further refinement to the requirements and scope 	

Tender Evaluation Criteria*



No	Criteria	Weights
1	Ability & expertise to undertake and deliver the project Relevant technical expertise, team composition and team strength, in implementing projects of similar nature and is able to articulate and demonstrate capabilities.	15%
2	Ability to meet business outcome Demonstrate proposed solution and clearly articulates how the KPIs & Success Criteria can be met and how baseline can be determined to measure the success of the KPIs.	25%
3	Innovation, Value Creation & Sustainability The proposed Solution shall have a strong element of "innovation" that allows the proposed Solution to meet the project objectives and business outcome. The proposed Solution shall also have a reasonable and sustainable proposed business model.	30%
4	Price Competitiveness The price quoted for each of the milestones as stated by the Tenderer in Part 3 Guidelines for OBP Submission shall be quoted clearly in the format indicated in the schedule.	30%

^{*}Same evaluation criteria will be applied to both Pilot Trial and Full Implementation stages

Tender Critical Criteria



Non-compliance with any of the following critical criteria shall preclude the Tender Proposal from further evaluation.

- Compliance with Terms and Conditions of Part 1.
- Compliance with schedule and timeline for Pilot and Full Implementation.
- Tenderers that are debarred shall not be allowed to participate in the tender and shall not be considered for award of tender.
- Compliance with Requirement Specifications of Part 2 OBP Specifications.
- Compliance with Submission Requirements
 - The Tender Proposal shall strictly follow the layout stated in Part 3 Guidelines for OBP Submission. Non-compliance to this format may render the proposal liable to rejection.





- Section 1 Form of OBP Proposal
- Section 2 Management Summary
- Section 3 Prices and Charges
- Section 4 Statement of Compliance
- Section 5 Tenderer Information
- Section 6 Information on Proposal for OBP Stages
- Section 7 Information on Tenderer's Personnel
- Section 8 Information on Documentation
- Section 9 Information on Software Support and Maintenance
- Section 10 Information on Training
- Section 11 Information on Site Preparation
- Section 12 User References
- Section 13 Any Other Information





- Tender clarifications should contain the following information:
 - Company name
 - Reference to Tender Clause
 - Tenderer's Clarifications
- All clarifications will be compiled and published in Gov-PACT portal.
- Last set of clarification should reach us by 21 February 2020.
- Please send clarifications to Adeline GUI@enterprisesg.gov.sg