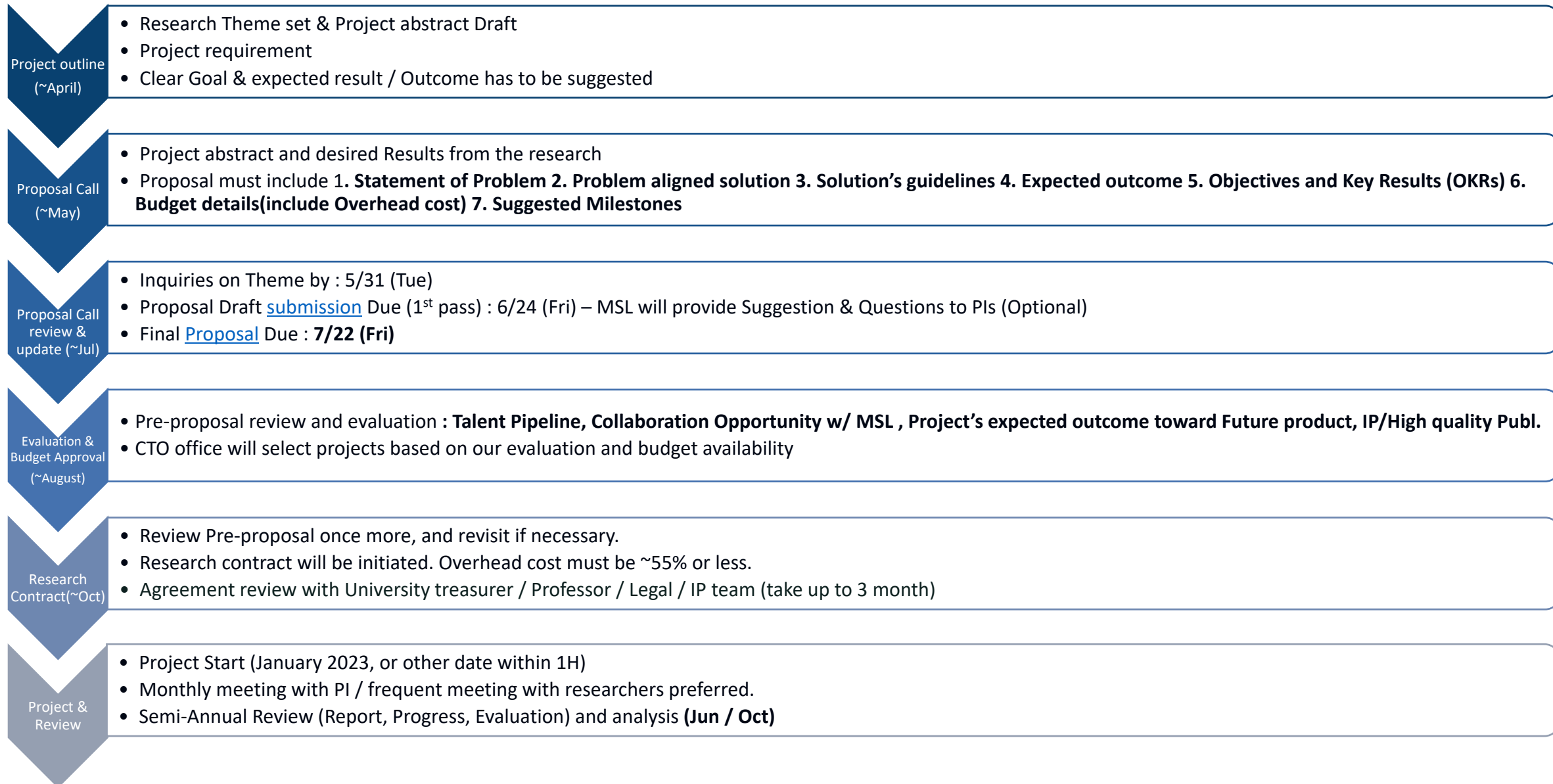


# 2023 MSL University Program Proposal Call

4/28/2022



# 2023 Fund Selection Process (SRC)



# Project requirement

## Strategic Research Collaboration (SRC)

- Purpose : To accelerate cutting edge technology development for future competitiveness
- Requirement
  - 2+ year program : Specific **Milestone** has to be proposed
  - University PI has to describe ultimate goal, clear outcome and deliverables
  - **Objectives and Key Result(OKRs)** has to be proposed
  - **Top level architecture description** is required
  - Research contract : Research result will be reviewed in June/October and there can be early termination if it doesn't meet MSL's requirement
  - Minimum 2 Student researcher. Samsung summer internship is highly preferred
  - Expecting high quality publications(Minimum 2) within three years
  - Monthly Sync-up meeting and quarterly project status report
  - Fully justify all performance claims with thoughtful theoretical predictions and/or experimental outcome
  - Include quantitative projections for performance improvement that are tied to representative values included in authoritative publications or in comparison to existing products

# MSL UR Program Theme

## <Strategic Research Collaboration (SRC)> : Long term project

1. Programming model for computational Storage
  2. Impact of deep memory hierarchy on computer architecture and software system
  3. Rack-scale computing architecture for net zero carbon
  4. Applications of near storage compute for Information-Centric Network (ICN)
  5. Mitigating data loading and caching bottlenecks for large scale AI training acceleration
  6. Federated AI – How near data processing can help core challenges of federated learning
- [Details](#) on each theme are on [MSL Website](#)

# Proposal from University

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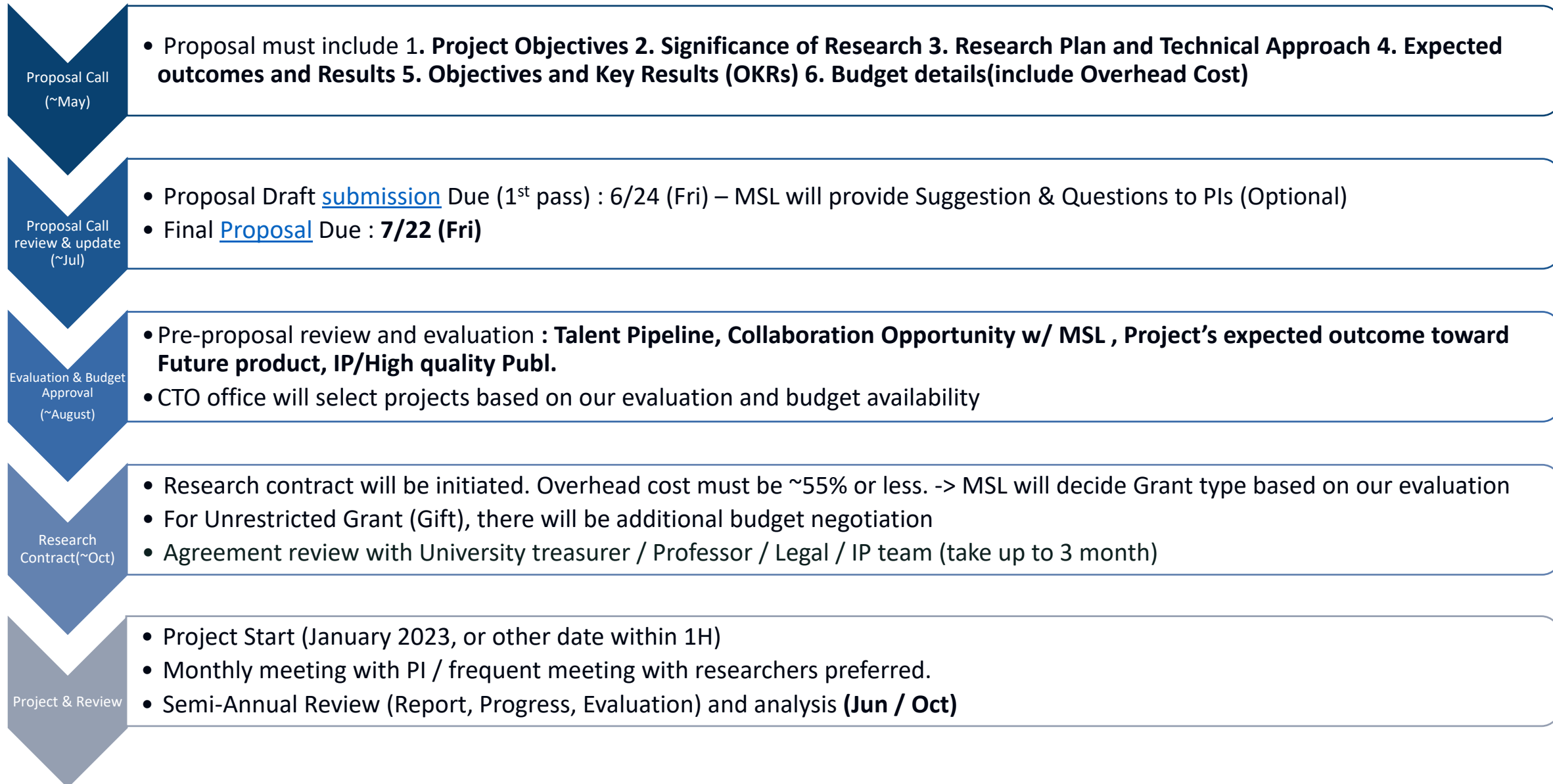
1. Project Theme :
2. Project Area :
3. Project Title :
4. Research Objectives
5. Statement of Problem & Significance of Research
  - Define the problem your proposal will solve
6. Project Plan & Suggested Solution (Problem aligned)
  - Solution's guidelines : How will you accomplish it?
  - Research Design & Methods
  - Research plan and technical Approach
  - Project Milestones
    - Year 1 : 1Q~4Q Plan
    - Year 2 : 1Q~4Q Plan
  - Potential Obstacles
7. Expected outcomes and result (Tangible / Intangible)
  - Objectives and Key Results (OKRs)
  - Solution's proposed application, use case, value, effect
8. Budget details

[Click to download Template](#)

# Plan for project selection

- Proposal Call(May)
  - MSL will suggest Project abstract and desired Results from the research
  - Proposal must include
    1. Statement of Problem
    2. Problem aligned solution
    3. Solution's guidelines
    4. Expected outcome
    5. Objectives and Key Results (OKRs)
    6. Budget details
    7. Suggested Milestone
  - Propose a tightly structured project which includes technical and project that demonstrates clear progress, are aggressive but achievable, and are quantitative
  - Clearly define the merit of the proposed innovation compared to competing approaches and the anticipated outcome
  - Based on proposal, Tech lead will have follow up meeting if it's required. (Early Aug. TBD)
  - Detailed milestones & expected outcome will be adjusted based on MSL's request (Early Sep TBD)
    - Negotiation on detailed research plan
    - Negotiation on budget & Project duration
- Final proposal review (August)
  - Internal evaluation on final proposal
  - Evaluation Criteria : Talent Pipeline, Collaboration Opportunity w/ MSL , Project's expected outcome toward Future product, IP/High quality Publ.
  - Further discussion on Project proposal if it is needed
- Research contract process start(Mid Sep)

# 2023 Fund Selection Process (Funded research project, ~1yr)



# Proposal from University

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- Please use [Proposal Template](#)
- Research Theme
  - Disaggregated/Rackscale/Composable Architecture
  - System Security



# (Ref.) Project Review Summary (Template)

<b>PJT Title</b>				
<b>Related Lab PJT or Task/Area/sub category</b>	(MSL project) / (Sub Category)			
<b>Institute</b>	ABC University	<b>PI(Actual Researcher than PI)</b>	Prof. ABC	
<b>Period</b>	1/1/2022-12/31/2022	<b>Cost</b>	\$###,000	
<b>Department</b>	MSL	<b>VP in Charge</b>	Sungwook Ryu	
<b>Purpose Of Cooperation</b>	<ul style="list-style-type: none"> <li>Quarterly Milestone</li> </ul>			
<b>Goal and Result</b>	<b>Technology</b>	<b>Weight (%)</b>	<b>Goal Spec.</b>	<b>Result(now)</b>
<b>Outcome</b>	<b>Category</b>	<b>Weight (%)</b>	<b>Goal</b>	<b>Outcome of cooperation</b>