

QUESTIONS & ANSWERS

BUILT ENVIRONMENT LIVING LABORATORY FRAMEWORK (BE LLF)

Q1. What is the Built Environment Living Laboratory Framework (BE LLF)?

A1. The LLF is a new platform that aims to support test-bedding of innovative proposals that benefit the Built Environment (BE). Firms can submit their test-bed proposals to the LLF's [one-stop shop](#), which will then be evaluated for consideration of test-bedding in living laboratories.

The key benefits of the LLF are as follows:

- a) Offer “one-stop” service to link up BE firms with the right MND agency to test-bed their proposal;
- b) Allow innovative test-bedding proposals that are of acceptable risk, and with appropriate mitigating measures, to be expedited for test-bedding at living laboratories; and
- c) Provide facilitative regulatory clearance or “sandbox” to support proposals with regulatory concerns.

Q2. What is the scope of proposals that can be submitted to the BE LLF?

A2. There is no restriction placed on the scope of the proposals. Any innovative test-bedding proposal that is ready for deployment and beneficial to the built environment could be accepted under the BE LLF.

As a guide, some examples of BE-related test-bedding proposals include:

- Deployment of urban solutions in towns
- Building and construction-related technology, e.g. IDD, BE robotics and automation, aggregated/ multifunction facilities management
- Nature-based solutions, e.g. greenery, landscaping

Depending on the applicability and readiness of the proposals, the proposal may also be routed to existing schemes e.g. BE-AMP and Cool Ideas (if appropriate), or to other relevant agencies outside of the MND family.

Q3. How do firms submit their proposals to the BE LLF?

A3. Firms with an innovative test-bedding proposal in mind can submit to the BE LLF at this [link](#). Before submitting the proposal, it would be good to prepare the following information:

- Details of proposal – benefits of the proposal, proposed technology, level of readiness, indicators to measure performance, potential for subsequent adoption
- Impact on regulations (if applicable)
- Risk assessment and mitigating measures
- Public communications plan

Q4. How are proposals facilitated? How will proposals be evaluated under the BE LLF?

A4. BCA will serve as a convenient one-stop shop for all firms to submit their proposals and make enquiries. BCA will evaluate the proposal and connect the firm to the relevant MND agency who will guide the firm throughout the rest of the test-bedding process.

Proposals will be evaluated based on merit and whether they fulfil the criteria for test-bedding. Primarily, the proposal should **benefit the BE** (i.e. contribute towards achieving a liveable, sustainable and resilient Singapore) and **demonstrate improvements to existing processes and/or business models** (e.g. increase productivity, cost saving). The innovation should also have the **potential to scale up** for adoption in Singapore and beyond.

For successful applications, BCA will contact the applicant to facilitate implementation. For unsuccessful cases, BCA will notify the applicant too.

Q5. How long will it take from the submission of complete proposals to receiving a reply from the BE LLF?

A5. The BE LLF will target to reply all complete proposals submitted on the initial evaluation results within one month. If successful, an MND agency will be identified to facilitate the implementation of the proposal with the firm (e.g. by identifying the test-bedding location, resolving regulatory concerns, and finetuning design parameters with the firm).

Q6. Who can submit proposals and is funding available for firms?

- A6. Any firm can submit a test-bedding proposal under the BE LLF. While funding is not directly available under the BE LLF, the firm will be able to gain access to government living labs and receive support from relevant MND agencies (including facilitative regulatory clearance process) to ensure smooth deployment of the proposal at the living laboratories.

Depending on the nature of the proposals, firms may be able to benefit from existing schemes, such as BE-AMP or Cool Ideas.

Q7. Where can I direct queries on the BE LLF to?

- A7. You may direct all queries regarding the BE LLF to:
- Ms Jovelle Tang (Jovelle_Tang@bca.gov.sg)
 - Dr Darren Lim (Darren_TY_LIM@bca.gov.sg)

Q8. If my firm is in the midst of discussion with an agency on a possible demonstration project, should I submit a proposal through the BE LLF to improve my chances?

- A8. If your firm has already engaged an MND agency, we encourage you to continue engagement through the existing channel. You need not submit a proposal via the BE LLF as the pilot agencies (PAs) are committed to support test-bedding of innovative proposals at our various living laboratories.