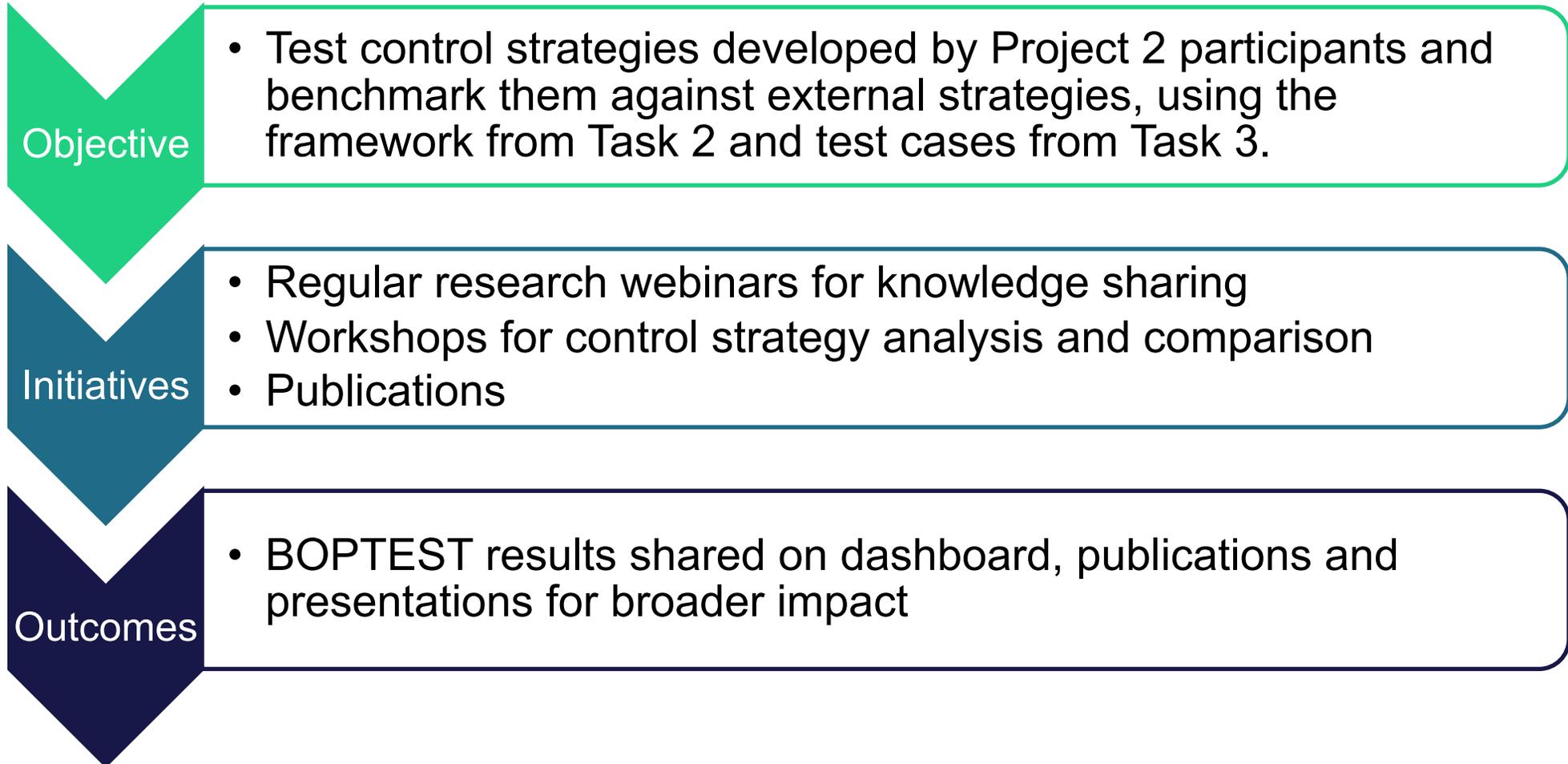


Zhe Wang and Esther Borkowski

IBPSA Project 2

Task 4: Controller Testing

Overview of Task 4



Initiatives in Task 4

Research Webinars:

- **Purpose:** Foster knowledge sharing through bi-monthly webinars that present BOPTTEST studies, address challenges and highlight innovations, connecting researchers and individuals.
- **Format:** One-hour virtual sessions with two 20-minute presentations followed by Q&A.

Control Strategy Analysis and Comparison Workshops:

- **Purpose:** Conduct bi-annual workshops around major events to facilitate analysis and comparison of control strategies, focusing on technical aspects like efficiency and adaptability.
- **Format:** Interactive workshops with benchmarking comparisons, peer feedback and discussions.

Publications:

- **Purpose:** Collaborate with task leaders to analyse benchmarking results, identify trends and publish insights.

LIVE WEBINAR

From parameter optimization to emulator development for improved building control modeling with BOPTEST

BOPTEST (Building Optimization Performance Test Framework) is an open-source platform designed to evaluate the performance of building control strategies. This webinar will begin with a presentation from Parastoo Mohebi on comparing different parameter identification techniques for optimal control of building energy systems. Then, Dr Iago Cupeiro Figueroa, founder of Cupeiro Soluciones Intelixentes de Enerxía (Sinte), will introduce the "multizone_office_simple_hydronic" emulator, a new model developed for BOPTEST to address shortcomings observed in existing emulators when compared to real buildings.

Time:

Wednesday 27th Nov 09:00 UTC

Registration:

https://bit.ly/IBPSA_BOPTTEST1



Parastoo Mohebi



Iago Cupeiro Figueroa



INTERNATIONAL
BUILDING
PERFORMANCE
SIMULATION
ASSOCIATION

IBPSA Project 2

IBPSA Education Seminars

Progress

| Y | 2024 | | | | 2025 | | | | 2026 | | | | 2027 | | | |
|--------------|------|----------|---|------------------------|---------------------|---|----------------------|---------|----------------|---|---|---|----------|---|----------------------|---|
| Initiative Q | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| Webinars | | Planning | | First Webinar | Bi-Monthly Webinars | | | | | | | | | | | |
| Workshops | | | | | Planning | | Workshop at BS25 | | | | | | Planning | | Workshop at BS27 | |
| Publications | | | | Collecting Information | | | | Writing | Submission | | | | | | | |

Plans for Next 12 Months

Research Webinars

- Promote upcoming webinars
- Develop and distribute participant feedback survey; analyse responses
- Finalise topics and speakers for future webinars

Control Strategy Analysis and Comparison Workshop at BS25

- Plan and hold workshop in collaboration with conference organisers
- Invite participants to present control strategies and benchmarking results
- Develop strategies to facilitate peer discussions, feedback and problem-solving
- Gather and apply feedback for workshop improvement

Publications

- Create a feedback collection plan for webinars and workshop
- Collect and analyse data for publication
- Coordinate with task leaders to ensure thorough insight coverage
- Contribute to additional Project 2 publications

Discussion Points for Breakout Session

- **Webinars:** Currently, each webinar features speakers on varied topics without an overarching theme. What main themes could guide future webinars, incorporating both industry and research perspectives? Are there specific speakers you would suggest for these themes?
- **Workshops:** Discuss the feasibility and planning of a potential BOPTTEST Workshop at BS2025. What key elements should be included?
- **Publications:** How can we effectively utilise insights from webinars and workshops for a publication? What approaches would best capture and convey the value of these sessions?