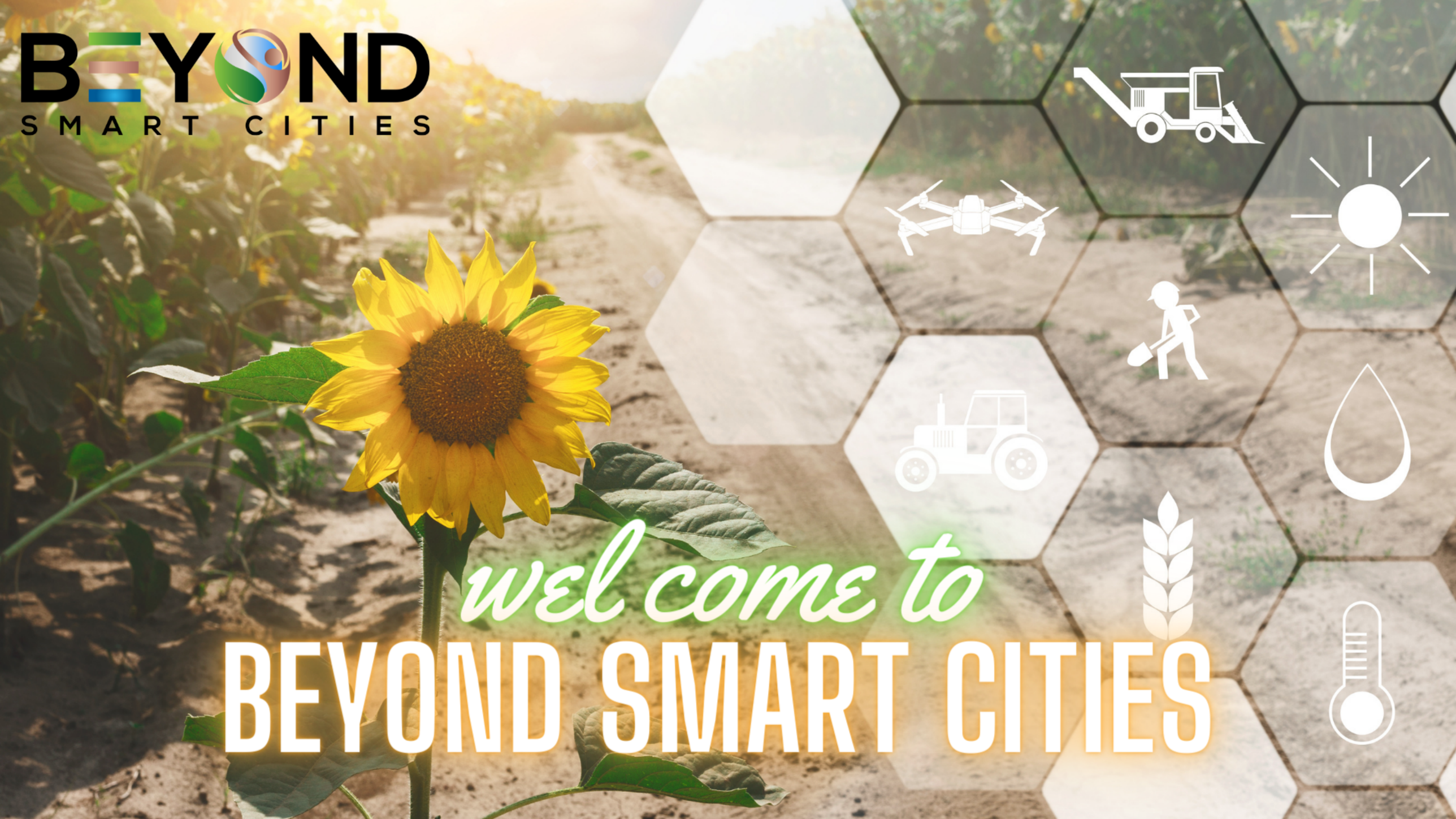

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DESIGN-PHASE COMMISSIONING PROCESS
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MODULE 9

Summary and Resources

KRISHNAJI PAWAR - CEO & FOUNDER

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DESIGN-PHASE COMMISSIONING PROCESS OVERVIEW

The commissioning authority (CxA) is critical in ensuring the quality of building commissioning and construction documents. They assist the design professional in achieving the best system design and ensuring that the design concepts meet the performance objectives of the owner. CxA prioritize commissionability and functionality while avoiding design flaws.

Learning Objectives

- Introduction & Design Phase Overview
- Design Phase Objectives
- Commissioning Team
- Design Phase Activities
- Systems Typically Commissioned
- Prepare a commissioning plan.
- Prepare specifications:
- Pre-Bid Conference
- Project Manual Review
- Commissioning Design Review
- Value Engineering
- Risk Management
- Design Commissioning Report

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IN SUMMARY

- The schematic design phase follows predesign.
- Assuming the owner's commissioning authority participated fully in predesign, the CxA is fully knowledgeable about the owner's project requirements and can help the design phase succeed.
- Understanding the commissioning authority-design professional relationship is essential before discussing design details.
- The CxA's role is to help the design professional achieve the project's best system design and ensure that the DP's preferred design concepts meet all performance objectives in the owner's project requirements.
- Keep in mind the owner's building commissioning quality assurance process's two main principles during design: The commissioning authority ensures quality.

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BRIEF ABOUT ME

Krishnaji PAWAR

CEO & FOUNDER



Krishnaji Pawar is founder and CEO of Beyond Smart Cities. Before being named CEO in January 2020, Krishnaji held leadership roles at Beyond Smart Cities in both Sustainability ,Energy & Environmental Consultancy.

Specialized in developing sustainable design strategies for Green Building Certification Systems (LEED, GSAS, etc.), Energy & Water Conservation, Commissioning, Environmental Impact Assessment & Environmental Management Systems.

Currently responsible for 3,787 million square feet Green Building /Energy modeling Consulting since January 2008 in UAE, India and Qatar.



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Beyond Smart Cities is the world's 1st Green Technology Marketplace, connecting millions of Sustainability Specialists, Green Building Specialists, Energy Specialists, Commissioning Specialists, Environment Specialists, Health & Safety Specialists, Fire Safety Specialists, Climate Change Specialists & Green Products/Technology Manufacturers with independent talent around the globe.

Our mission is to build and support a global community of experts with the highest professional standards in sustainability, green building, energy, commissioning, environment, health & safety, fire safety, climate change, GHG accounting, carbon auditing, and GHG emissions management.

RESOURCES FOR FURTHER RESEARCH

- Building Commissioning Handbook, third edition (2017): Building Commissioning Association/APPA: Chapter 4,
- EBCx and Appendix 1-1,
- "How to Hire a Commissioning Team"
- ASHRAE Standard 202-2018: Commissioning Process for Buildings and Systems ASHRAE Guideline 0.2-2015:
- Commissioning Process for Existing Building Systems and
- Assemblies
- ASHRAE Guideline 1.2-2019: Technical Requirements for the Commissioning Process for Existing HVAC&R Systems
- and Assemblies
- ASHRAE/BCxA Commissioning Stakeholders Guide (including QBS section)



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