Codes, Standards, Trade Associations, and Building Credentialing Bodies

ASHRAE

- 62.1 – Ventilation for Acceptable Indoor Air Quality (emphasize how "acceptable" doesn't necessarily cut it for a truly healthy smart building)
- 90.1 – Energy Standard for Buildings Except Low-Rise Residential Buildings
- Guideline 36 – High-Performance Sequences of Operation
- 223P – Proposed Standard for "Designation and Classification of Semantic Tags for Building Data" (more on this later in the presentation, in the BIoT slide notes)
- Chapter 63 of the 2019 ASHRAE Applications Handbook is specifically on Smart Building Systems

ANSI/BICSI 007-2017 – Information Communication Technology Design and Implementation Practices for Intelligent Buildings and Premises

NFPA 4 – Standard for Integrated Fire Protection and Life Safety System Testing

TIA and **UL** (along with Arup) recently developed a framework called SPIRE for smart buildings

TIA's Smart Buildings Program is committed to helping develop a smart buildings ecosystem that unites connectivity, interoperability, communications, and capacity to create a scalable foundation for creating the smart city. The program creates a framework of best practices that combines functional and performance requirements with adequate security, reliability, and

availability to provide a safe and connected environment.

WiredScore

RESET (Air) not shown (for-profit)

SRI – Smart Readiness Indicator

BREEAM (not shown due to for-profit administration)

UL acquired Healthy Buildings International Inc. in 2019 and a year later launched the "UL Healthy Building" rating system

Energy Star (add logo to slide for next release)
Green Globes (")
California Title 24