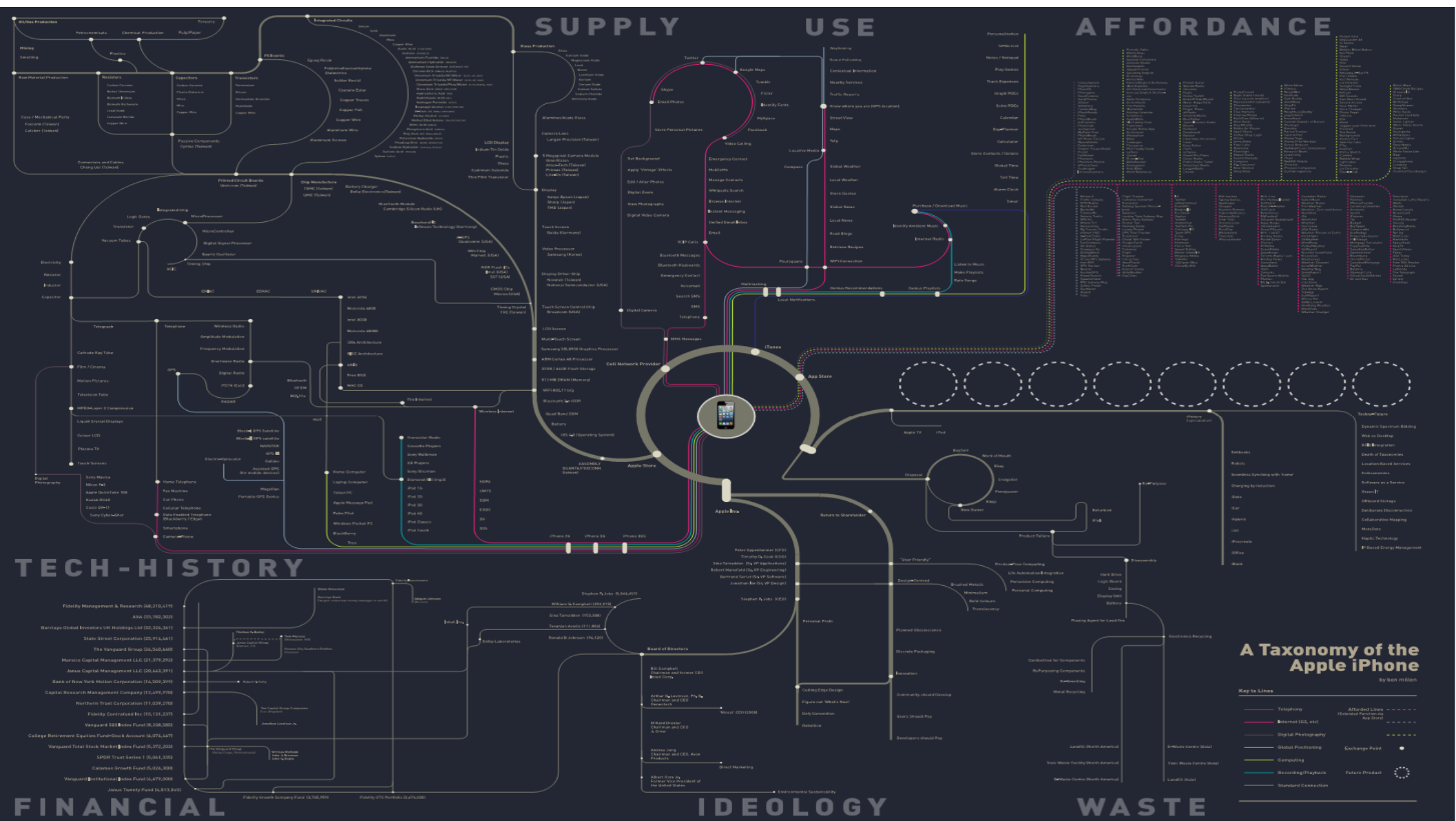




Facade Tectonics – Simulation vs. Reality

BUILDING ON MODERN BUILDING CONCEPTS

R. Stephen Montgomery, P.Eng – M&E Pursuits Manager



SUPPLY USE

AFFORDANCE

TECH-HISTORY

FINANCIAL

IDEOLOGY

WASTE

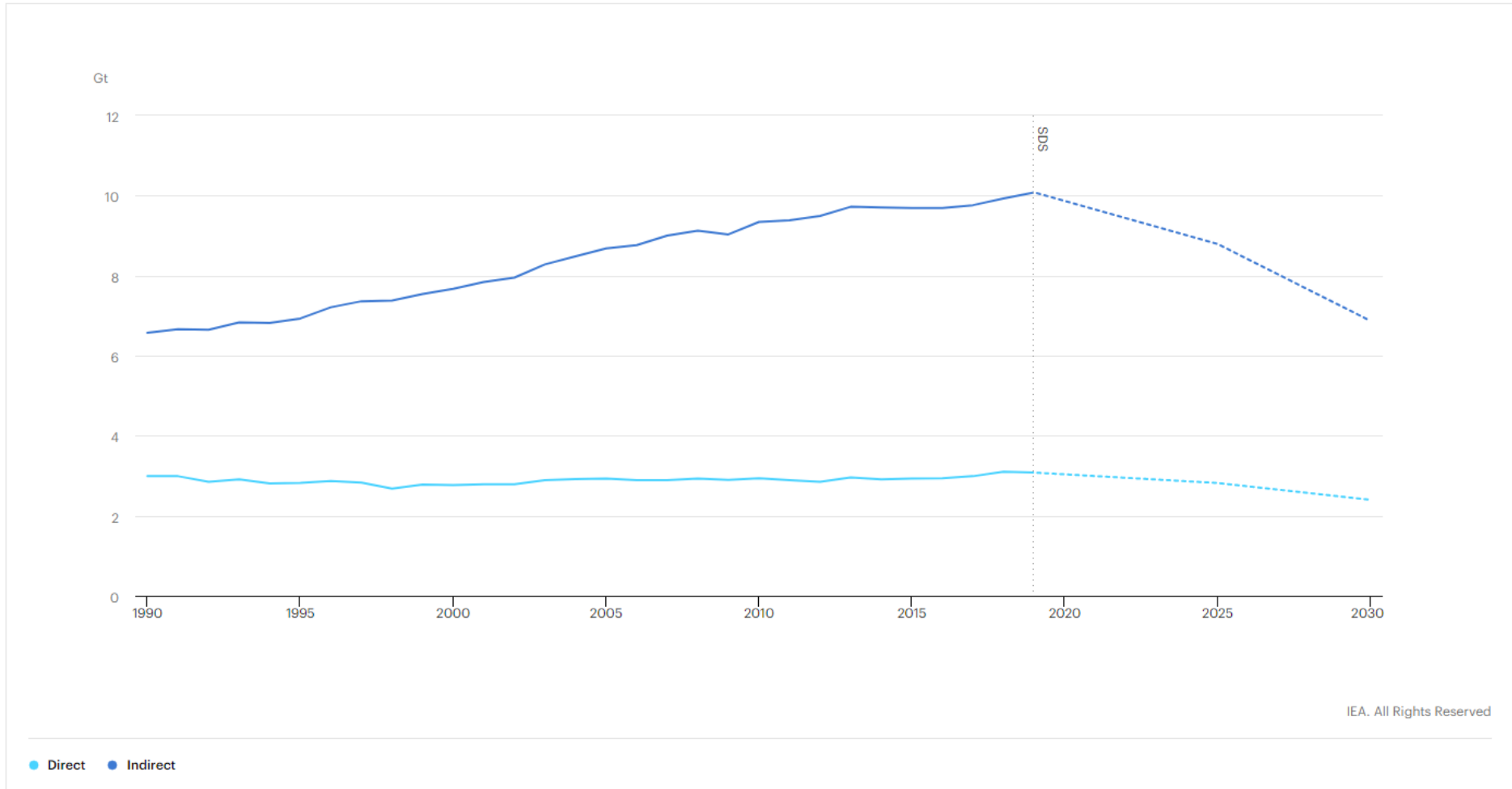
A Taxonomy of the Apple iPhone

By Sam Millan

Key to Lines

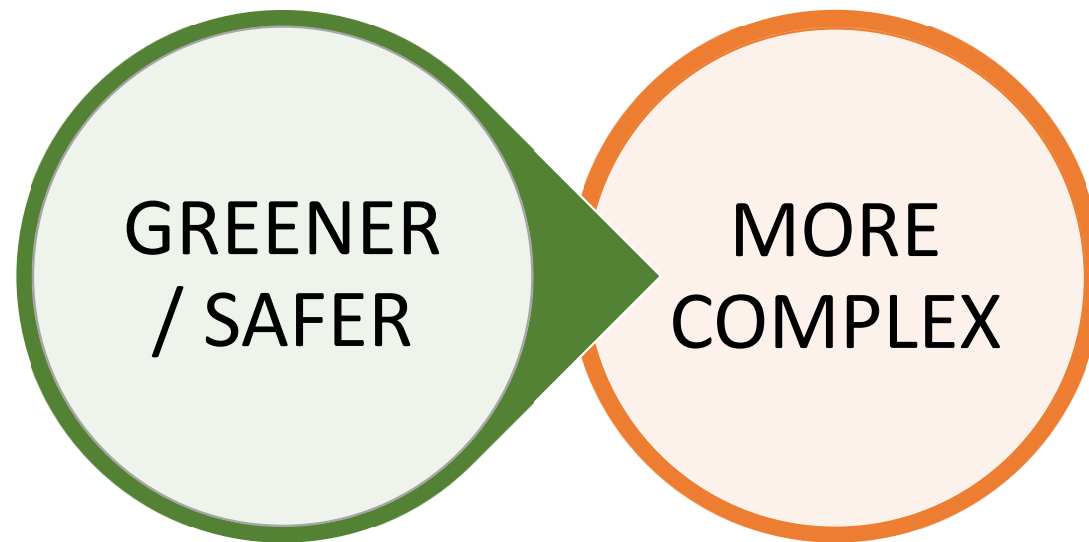
- Telephony
- Internet (Wi-Fi, 4G)
- Digital Photography
- Global Positioning
- Computing
- Recording/Playback
- Standard Connection
- - - Affordance Lines (Contextual Features, Key Straps)
- - - Exchange Point
- Future Product

Buildings Sector Energy-Related CO2 Emissions in the Sustainable Development Scenario – 2000-2030



International Energy Agency, www.iea.org/reports/tracking-buildings-2020

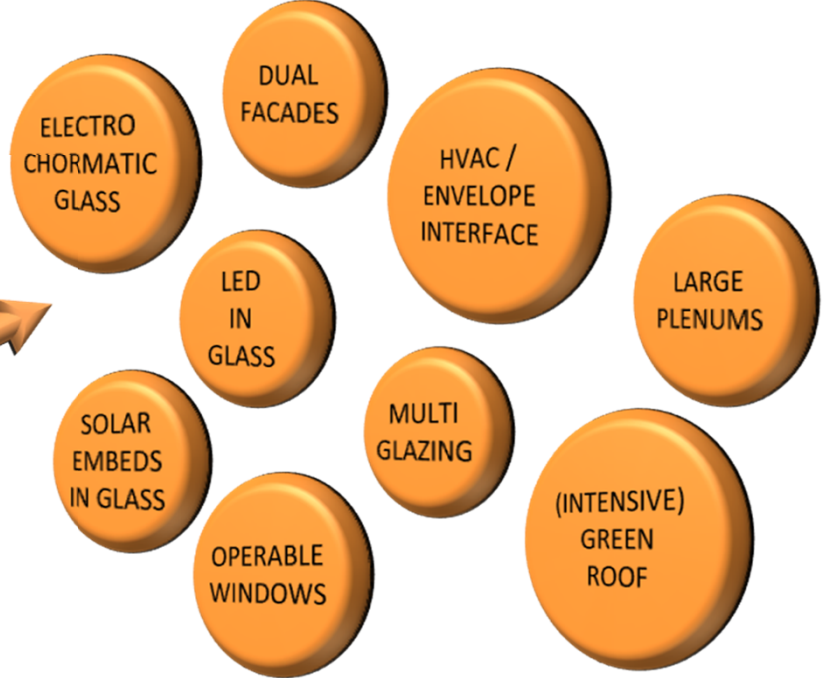
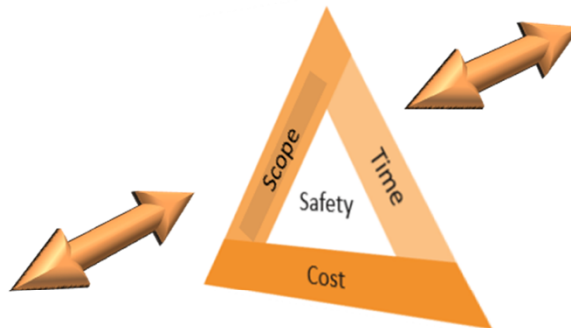
From Buildings to the Built Environment



How Does the Building Industry Respond?

COMPLEXITY REQUIRES NEW PLANNING UNDER

- SCHEDULE
- BUDGET
- SCOPE



MODELING GUIDES US TO INNOVATION, COMPLEXITY

Updating the Construction Process



SCHEDULE	BUDGET	SCOPE (PROCUREMENT)
DETAIL ENERGY MODEL MILESTONES	ASSESS COSTS TO NEW TECHNOLOGY	REVISE SCOPE SPECIFIC CONTRACT LANGUAGE FOR MULTIPLE TRADES
DETAIL INCREMENTAL ENVELOPE TESTING	ENSURE INSTALLATION AND TESTING METHODS ARE PRICED ACROSS TRADES EFFECTED	TRAINING OF GC AND STAFF TRADES
INCLUDE DYNAMIC ENVELOPE IN CX PLANNING AND EXECUTION	SEEK PREFABRICATION METHODS THAT INCREASE QUALITY / REDUCE TIME, WASTE	RESEARCHING NEW PRODUCTS AND TOOLS
	DEVELOP BROAD UNDERSTANDING OF AVAILABLE COMPETITORS	HIRING ENVELOPE SPECIALISTS
	RECONCILE CARBON CONTENT TO MEET LOW CARBON REQ'MNTS	PLAN FOR ADDITIONAL TESTS (THERMAL SCANS)
		DEVELOP / DEPLOY IoT SENSORS WHERE APPLICABLE



SHERBOURNE COMMONS

The Intent

