D2Di (Device-to-Device Interoperability)	
Opportunities	Risks
Education for end users	Reliability Issues
Having interoperable products that work as expected and meet	Systems that do not work as expected or advertised prevent future
customer expectations	adoption of the technology, bring us back to where we started (expensive on/off switches)
Workforce training and education on benefits of lighting controls with a focus on utility, prop mgrs and ESCOs	DLC direction not consistent with market need or direction
Simpler system operation	Lack of direction
HVAC system connectivity + high density sensors	Diluted responsibility. Cost/ROI
Increasing market adoption	misinformation and a one size fits all mentality
Adoption	Stranded saving
To ensure customer satisfaction to drive efficient systems. Systems need to play nice at the top level to allow utility programs to build out incentive programs resulting in installations of the most efficient.	Failure of connectivity causes finger pointing – who's is responsible - and opens door for risks such as security breaches

Room Controls	
Opportunities	Risks
Simplicity	Complication, especially related to vocabulary
Simplifying the controls buying process equals selling more controls	Asking info of contractors/installers that they may not have, overcomplicating
New customers increase adoption . Fills gap for some customers.	Too complicated and end up like NLCs. Could be a turn off if too complicated
Crazy, mad, wild energy savings and ease of use	People lack awareness on space/room based approach
Market size	Education
Increased adoption	Lack of scalability and potential conflict with code
Installers don't have to know the strategies or do any custom settings to achieve savings - set it and forget it	Some control strategies not utilized once installed
Further adoption of controls and allows accessibility for customers to install controls	One size might not fit all smaller businesses = more specialized systems still does not work, overly complicated therefore driving people away.

Efficacy	
Opportunities	Risks
App based tools for application efficacy	Program adoption and manufacturer participation
Looking outside of the luminaire	Distraction from the actual goal of increasing controls adoption
None + utilities could still incentivize products. LAE - Brings in NEBs and	Chaos throughout lighting supply chain (mfr staff resources,
tunable platforms. Would enable incentives around tunable and grow	marketing, education). Efficacy increase trumps innovation . Every 3
markets	years, no sooner (Mfrs, test labs, implementers)
Increased energy savings	Product cycle development and utility program implementation
Stop half measures (tubes and lamps) and open door for more controls	Manufacturers walk away
Expanding the list of factors considered in updates to efficacy	Increasing the cadence of DLC spec changes
requirements	
Enable innovation in products by creating flexible PUDs	Creating further disruption to supply chain (delisting, stranded
	products)
New fixture designs and reducing overall energy usage	Diminishing return. Can't squeeze anymore out.