



# The Categorization of an Emergent Digital Technology: The Internet of Things

Festival Theme: Technology & Innovation

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## Abstract:

Innovations in digital technologies are presenting both unexpected and unprecedented applications contributing to the potential formation and modification of market categories. Using the empirical context of Internet of Things (IoT), this research responds to calls from category scholars for greater attention to the social dimensions of category emergence. The guiding research question is *how are actors in the emergent field of the IoT using narratives to shape the construction of related market categories?* The intention is to deepen the understanding of category formation, particularly in contexts where there are no exemplars or dominant accounts to guide understandings, expectations and valuations.

## Introduction:



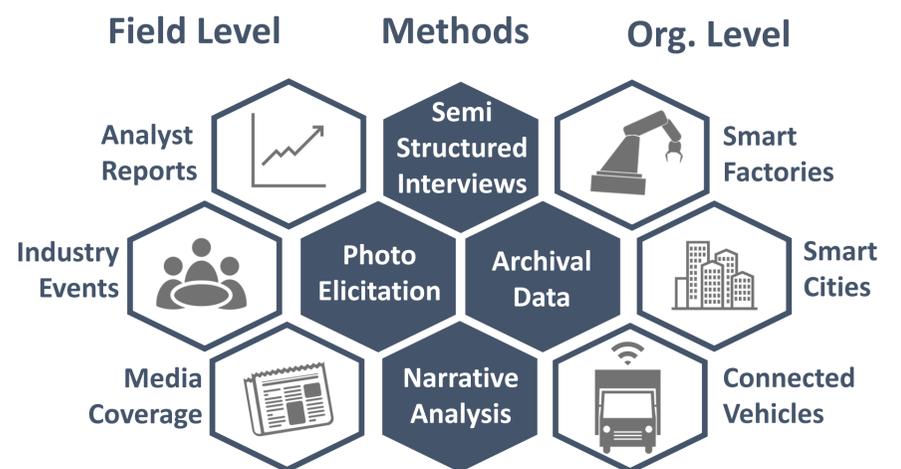
**“It’s a market [IoT] that hardly exists. It’s a market that needs to be created...”**

- Ericsson Employee, IoT Ecosystem Unit

The transformative potential of novel technologies can be manifested in the emergence, evolution and decline of categories (e.g., products, industries and markets). Categories shape expectations, behaviour, and valuations that structure the social world. A dominant focus in the literature has been on the ‘illegitimacy discount’ i.e. the penalties of deviating from established prototypes or standards of a category (Durand et al., 2017). Emphasis on the disciplining function of categories has typically neglected questions of what a new phenomenon means or why it is consequential (Grodal & Kahl, 2017). Thus, the formation of new categories remains under examined, particularly the social processes of categorization, and the abstract dimensions of new categories.

## Research Design:

To explore the emergence and construction of the IoT and related market categories, two case studies will be generated: 1) Field Level – focusing on the narratives shaping the perceptions and understandings of the nascent category; 2) Organizational Level - Ericsson’s IoT Group focusing on the narratives of the three emerging proto-categories.



## Contribution to Theory:



Responding to calls from categories scholars, this research makes the following contributions to the literature.



## References:

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