

Need for a Flexplatform for NYC

Concept Discussion

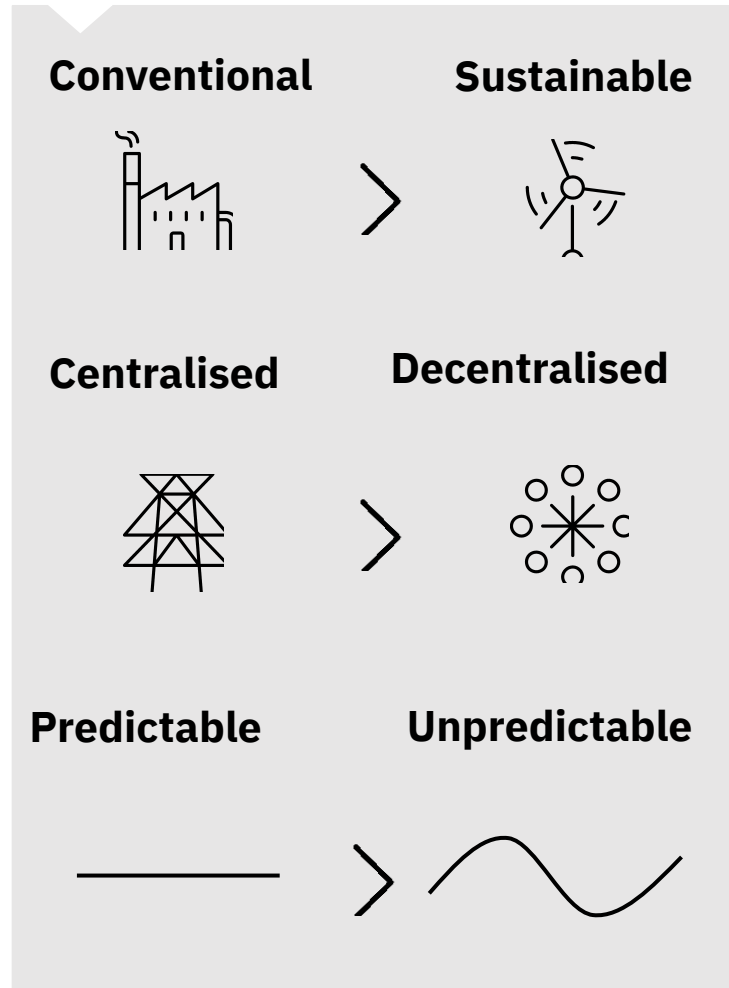
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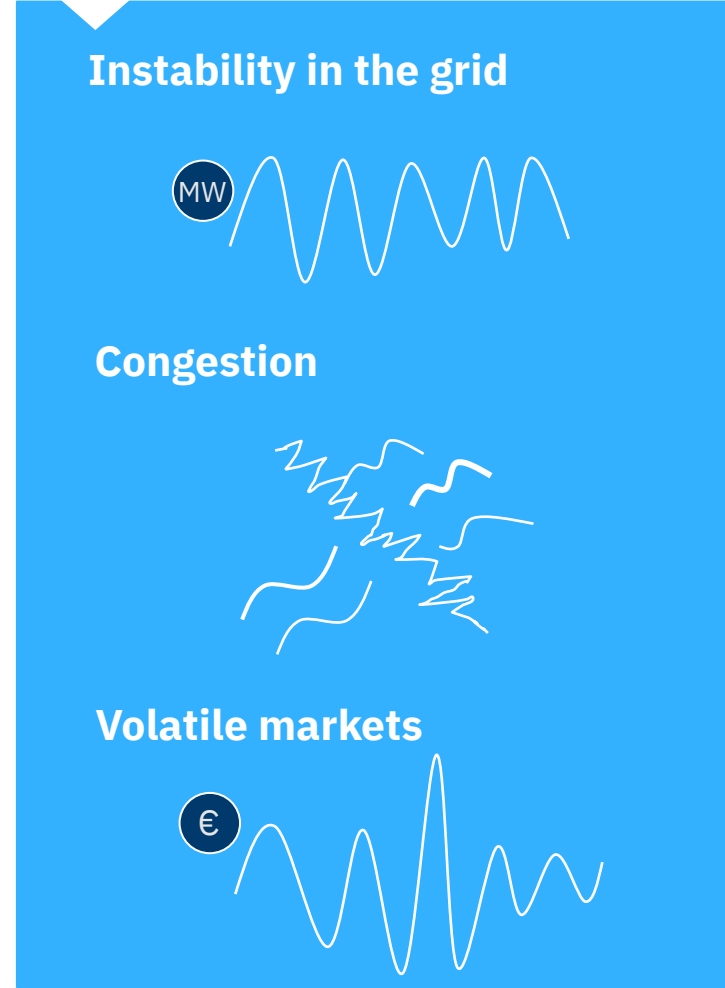


To comply with the NY State and NYC bold clean energy mandates, we must turn the challenge of grid balance into an opportunity.

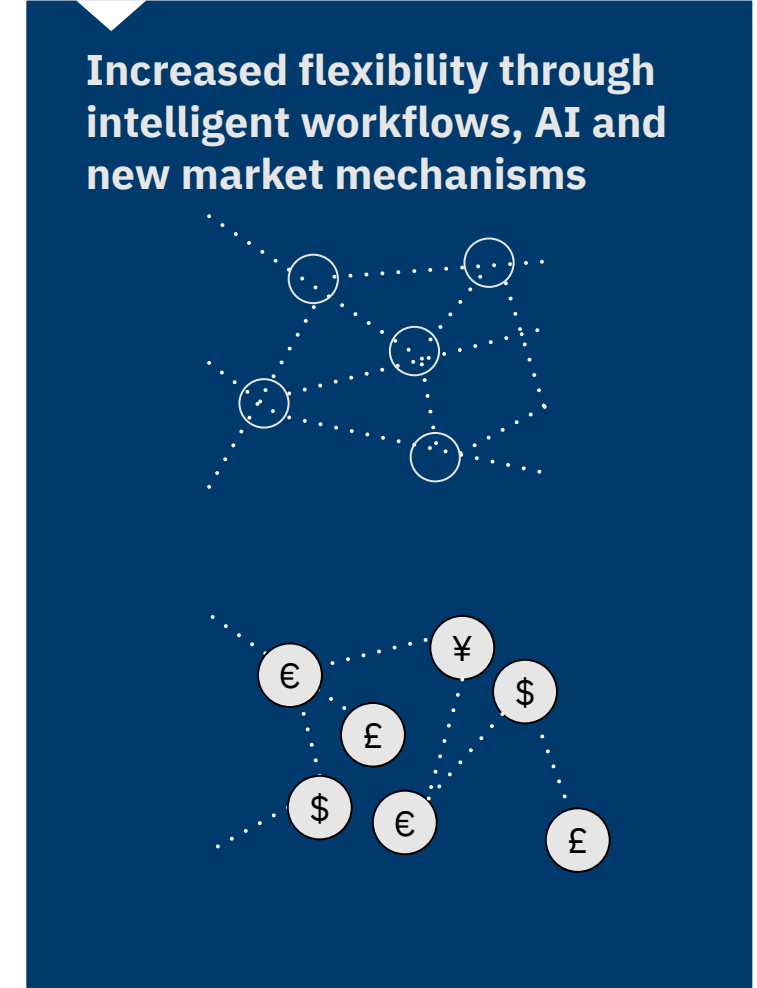
TRENDS



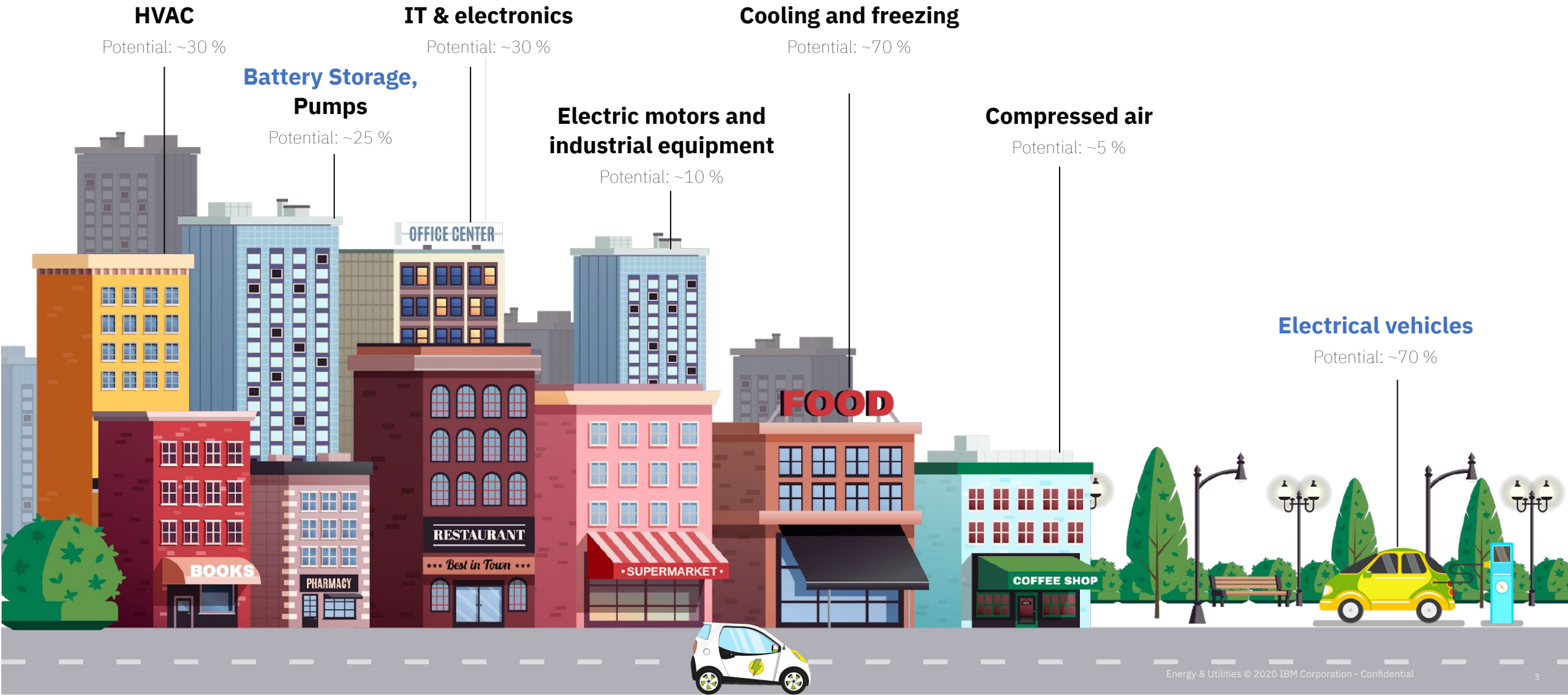
CHALLENGES



SOLUTION

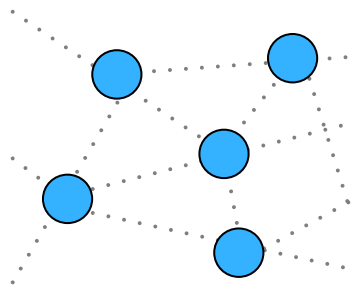


There are many kinds of flexible loads in a city – that can be controlled (start/stop) to unleash flexibility of demand into the market. The key is to aggregate at scale.



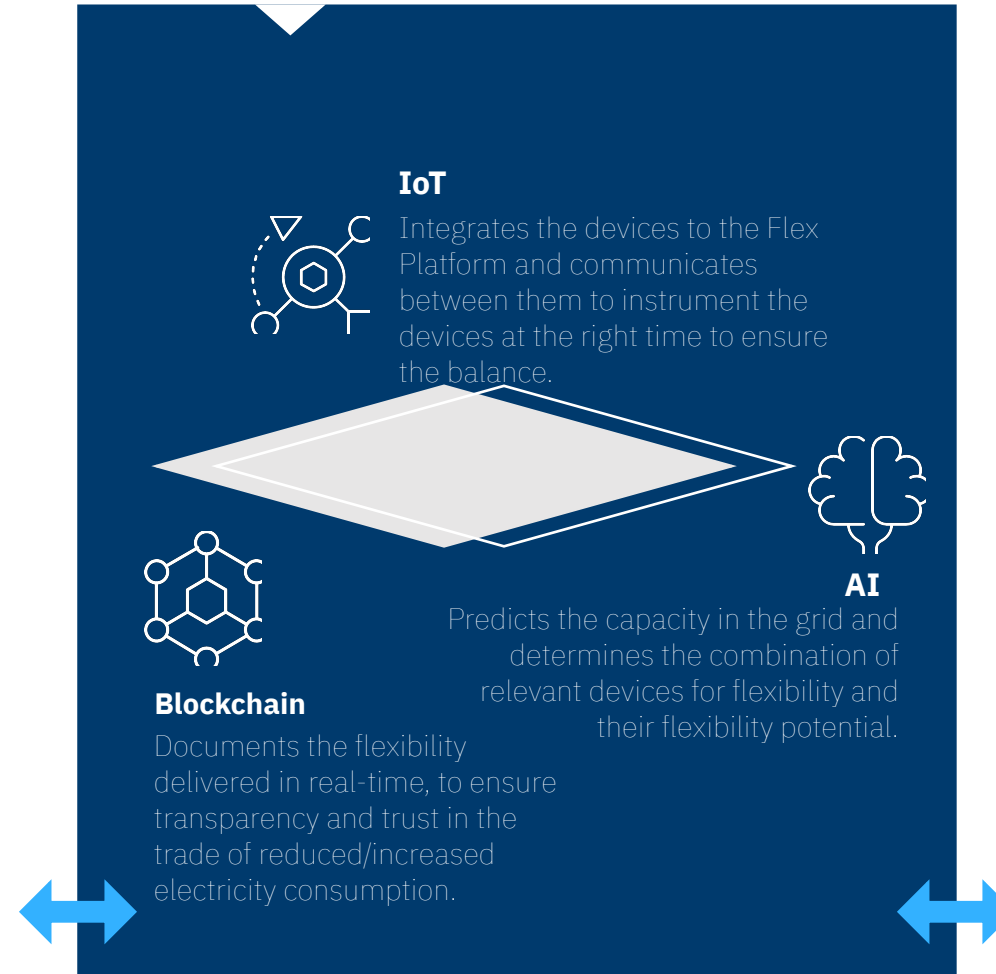
Several key technologies are used to create intelligent workflows that link the intelligent network to intelligent markets - Creating a new market platform for flexibility services

Smart Grids and Network Intelligence

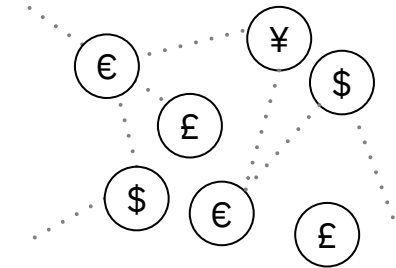


Network of electricity consuming devices, where each device can be instrumented to increase or reduce consumption to adjust to the balance and capacity in the grid.

Linked via Intelligent workflows



INTELLIGENT MARKETS



The electricity consumption is adjusted and typically moved from expensive to cheaper periods. The flexibility is pooled together and sold by aggregators in the markets for ancillary services.

Regarding IoT, Technology and Innovation, to achieve NYC's 2050 Carbon & Equity goals, the most critical obstacle to overcome is **lack of integrated, intelligent market platform to aggregate, optimize and trade flexibility resources. Its possible today.**

(<http://qsel.columbia.edu/nycenergy/>)

