Urban Air Mobility Communications and Navigation

Research Objective

Determine minimum operational performance standards (MOPS) for communication systems required for small Unmanned Aircraft Systems (sUAS) operating in urban environments (e.g., Uber air taxi, Amazon package delivery).

Research Approach

Design and conduct flight tests for small drones and formulate MOPS for different conditions:

- Beyond visual line of sight
- Remote two-way ID broadcasting
- Weight, location, and data transfer rate

Key flight tests' measurements include: signal quality, reliability of information and links

Research Team

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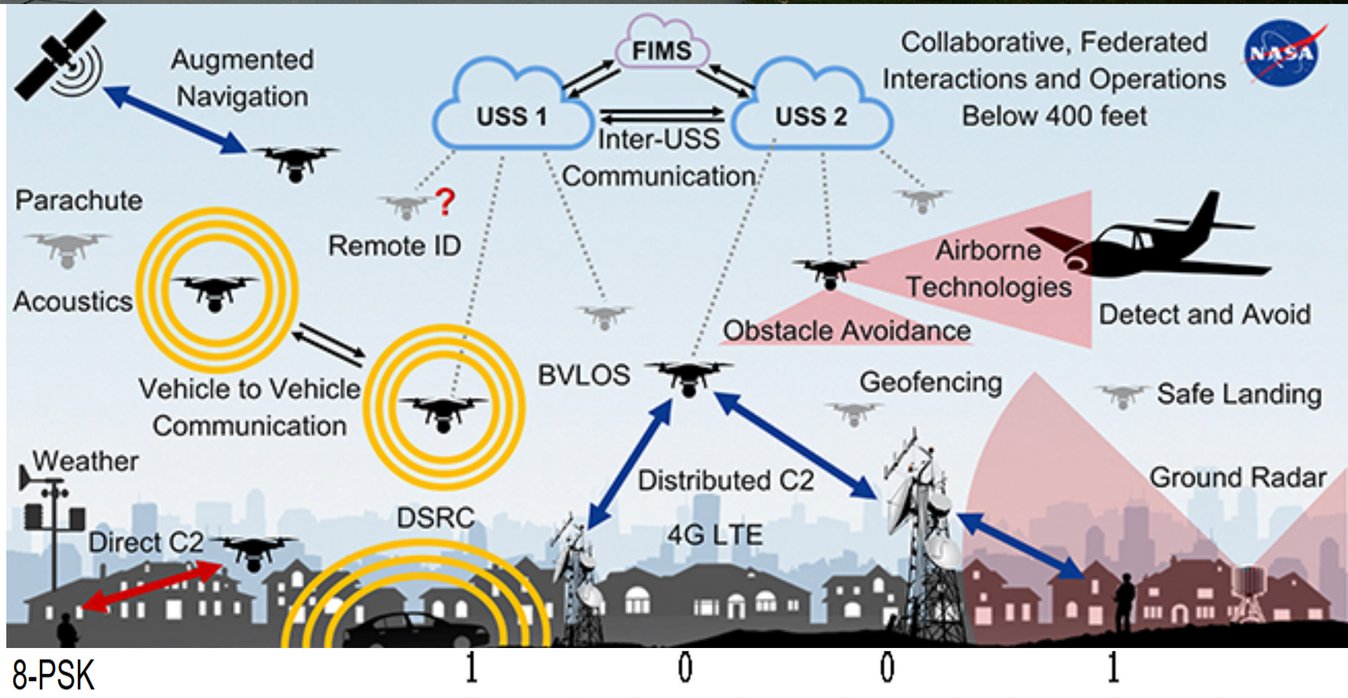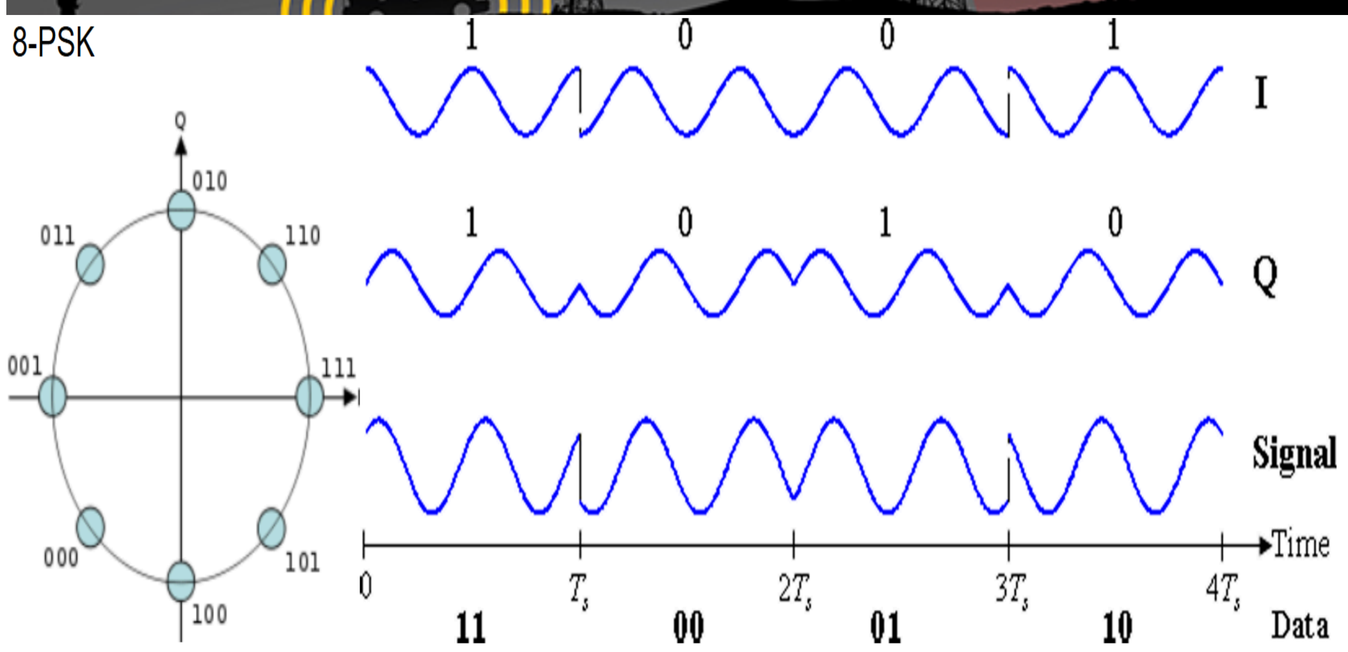
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