



MARAVEDIS

Wireless Infrastructure Analysts



Riot

Smart Metering & AMI Online Survey Results January 2021

- Survey ran from October 19 to December 1, 2020
- 111 Responses
- 75% Technical, 25% Business
- 55% in water, electricity or gas, 43% in charge of connectivity
- 61% have deployed an AMI
- 59% have deployed LoRa, 32 %LTE, 10% Wi-SUN, Other include wireless MBUS and proprietary
- 57% deployed citywide networks, 25% regional and 18% nationwide
- 53% of respondents do not belong to any association, 29% belong to the LoRa Alliance and 19% to the IEEE
- Number of End points collected by AMI vary greatly from hundreds to 50,000

MARKET REQUIREMENTS

TOP METER REQUIREMENTS

- Majority of meter reading are over 95% availability over a variety of time frames
- Majority transmitting from every 15 mins to hourly
- Payload varies greatly from few bytes to 300 bytes or more, depending on use case, desired battery life, and requirements

TOP WAN REQUIREMENTS

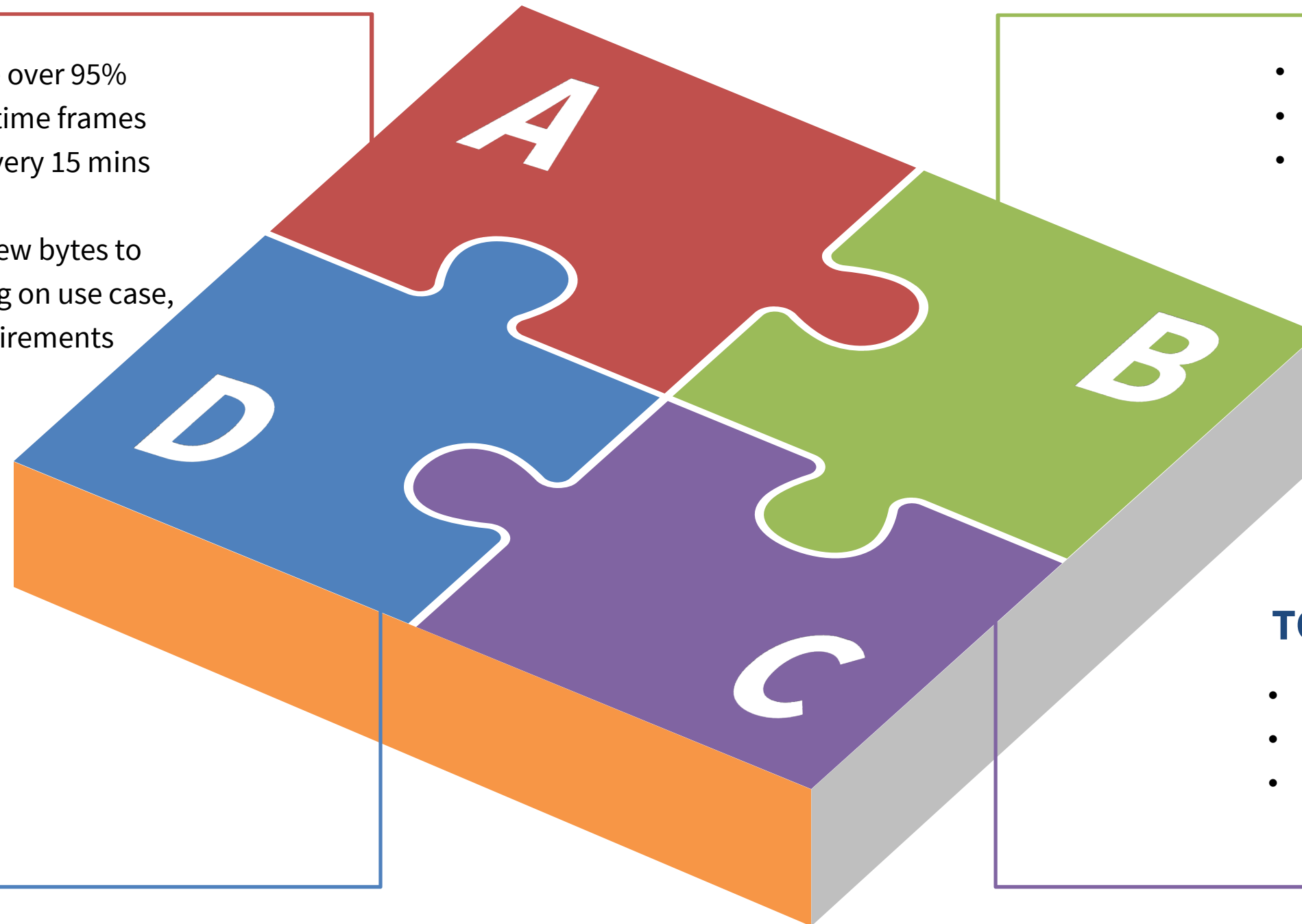
- % network availability
- Battery life
- Data Security

TOP USE CASES

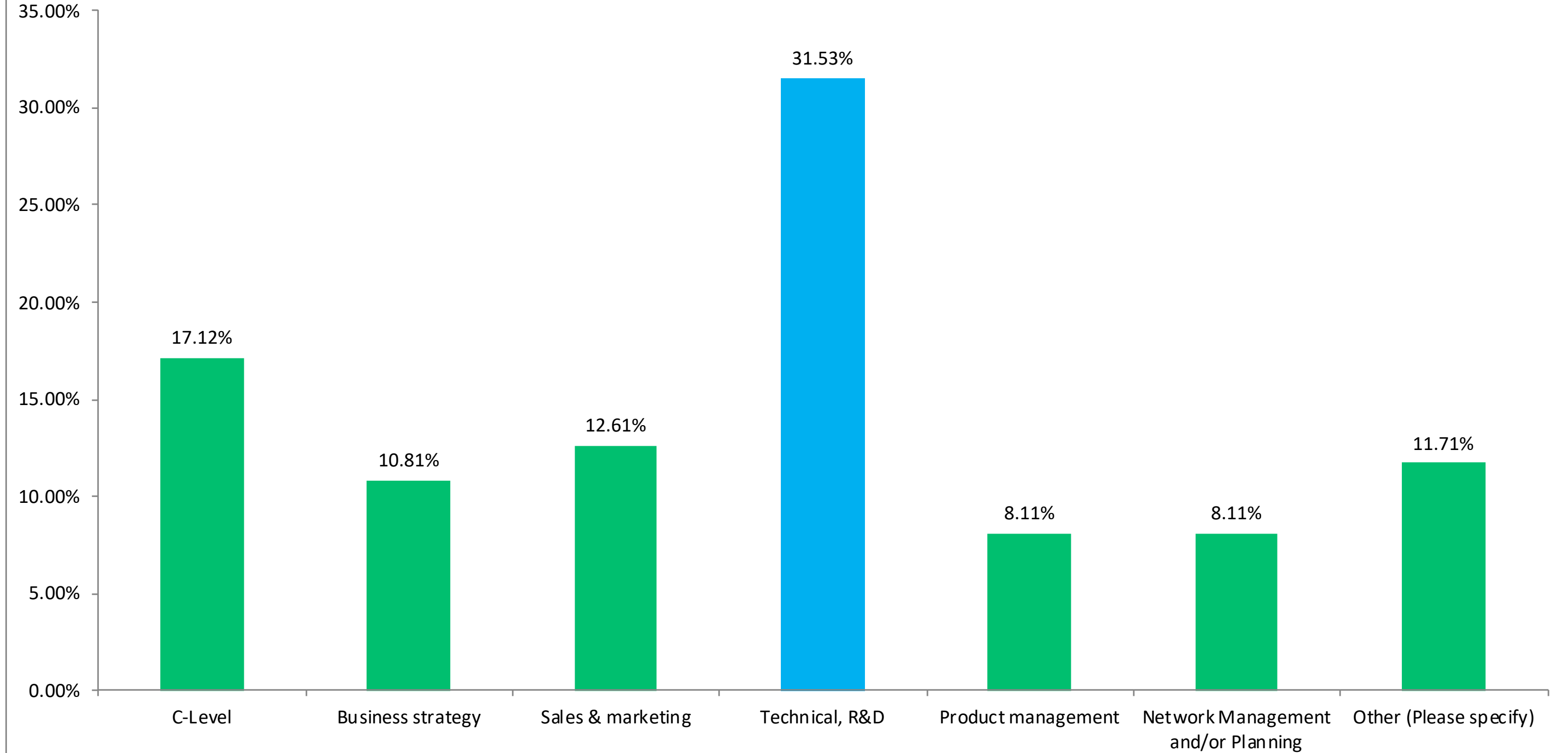
- Automatic reading
- Water/gas leak detection
- Home Energy Management System (HEMS)
- Smart cities

TOP CHALLENGES WITH AMI

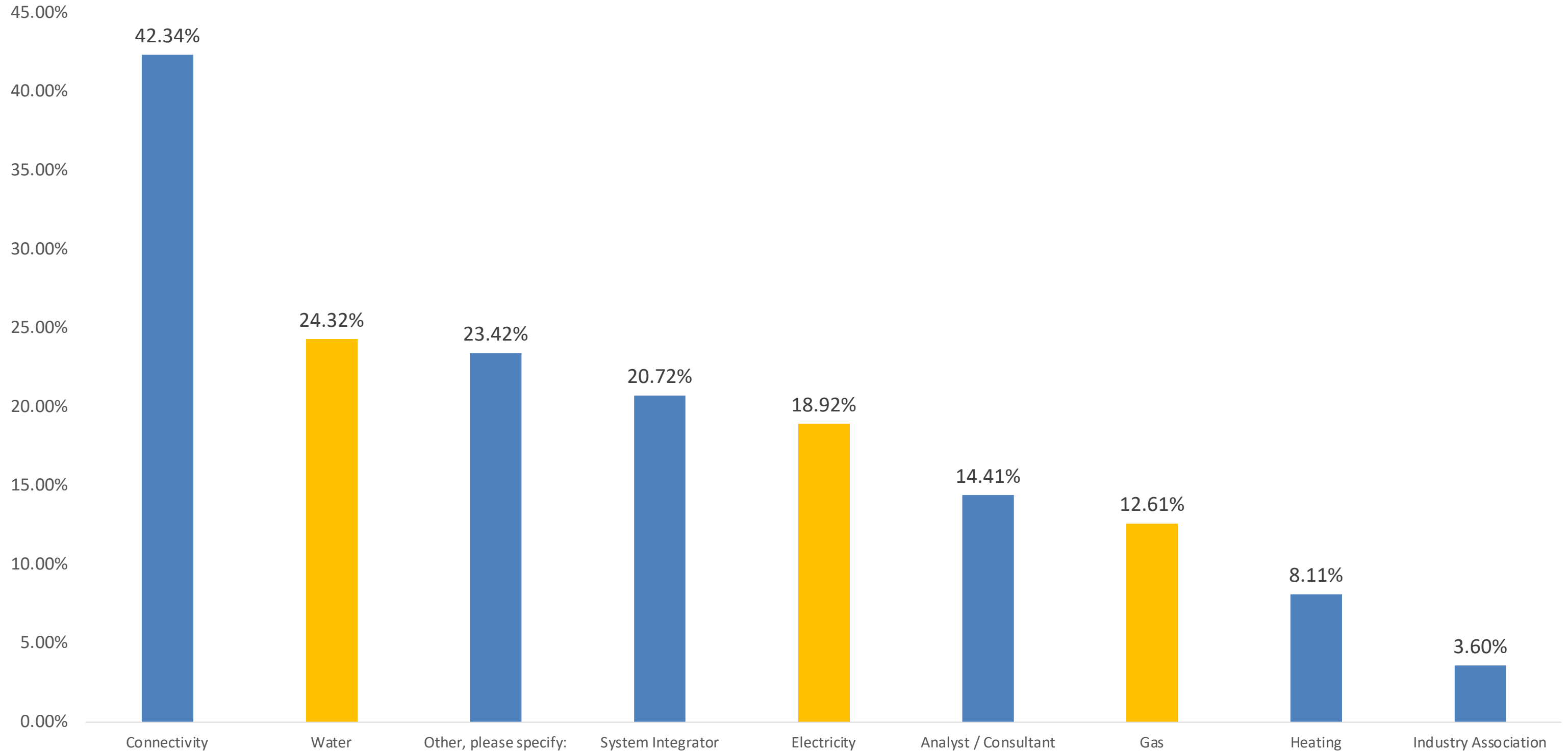
- Price and reliability of end nodes
- Interoperability issues
- Lack of budget/business model



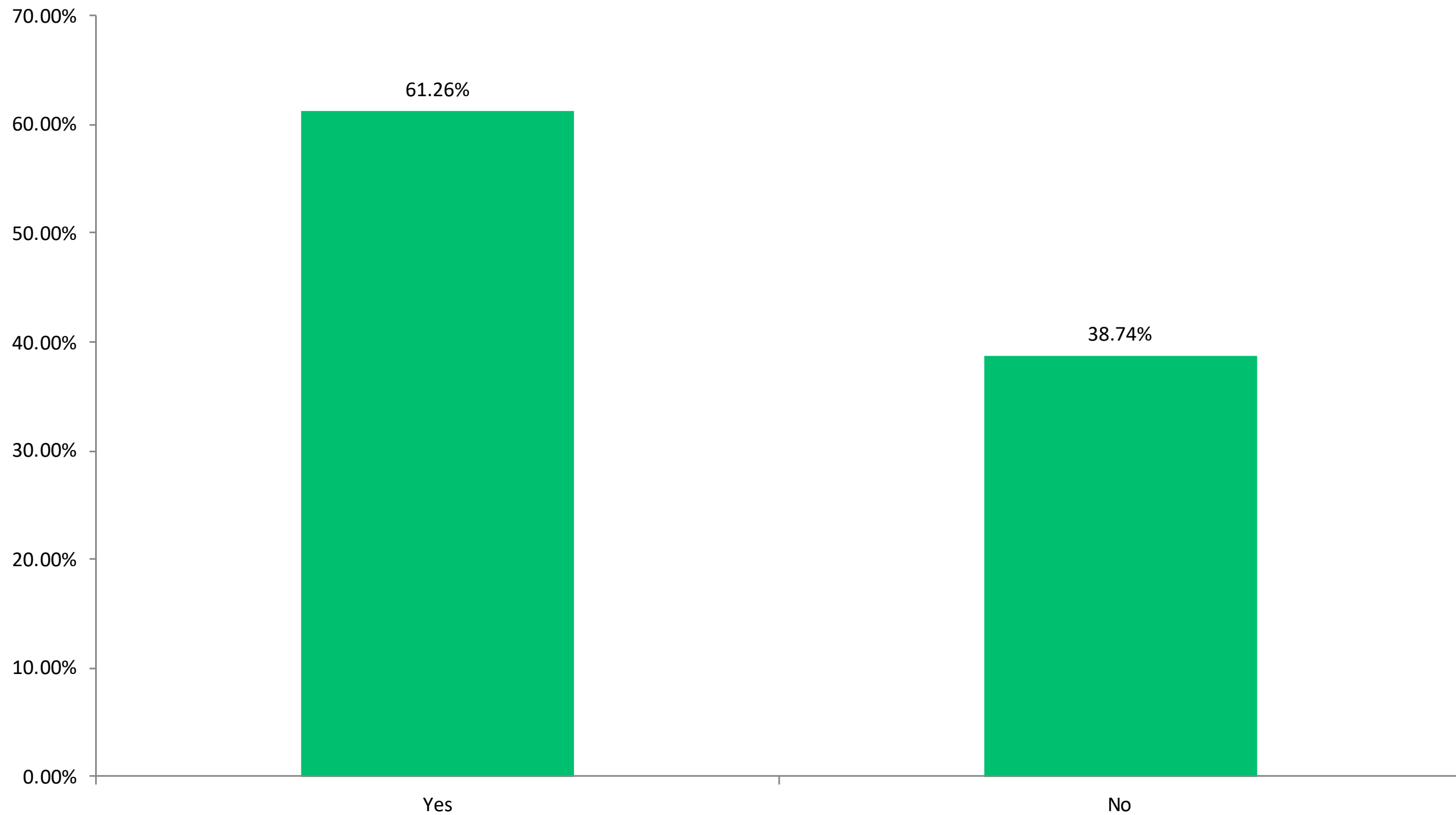
What is your area of work?



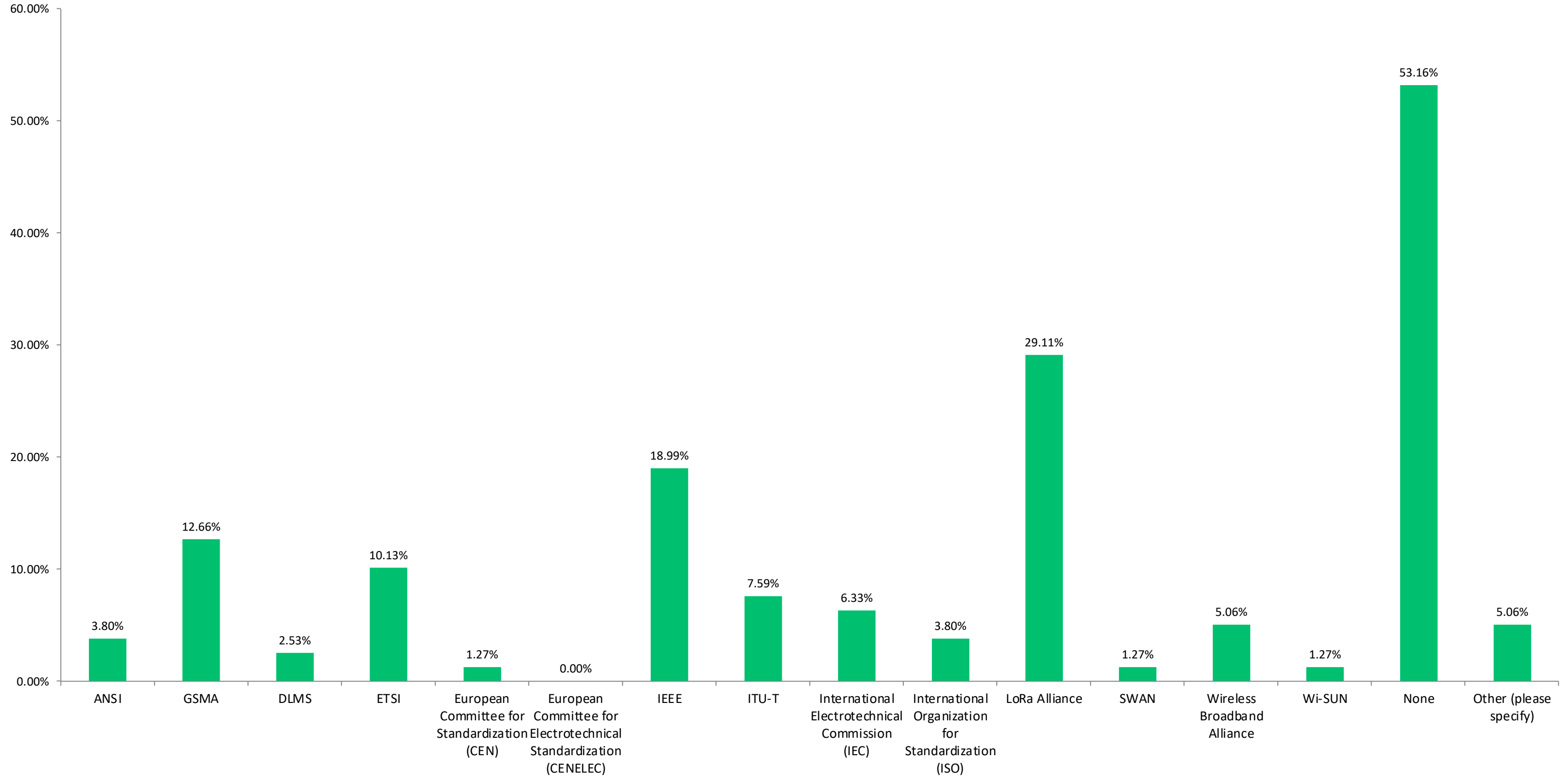
What are your company's primary areas of business?



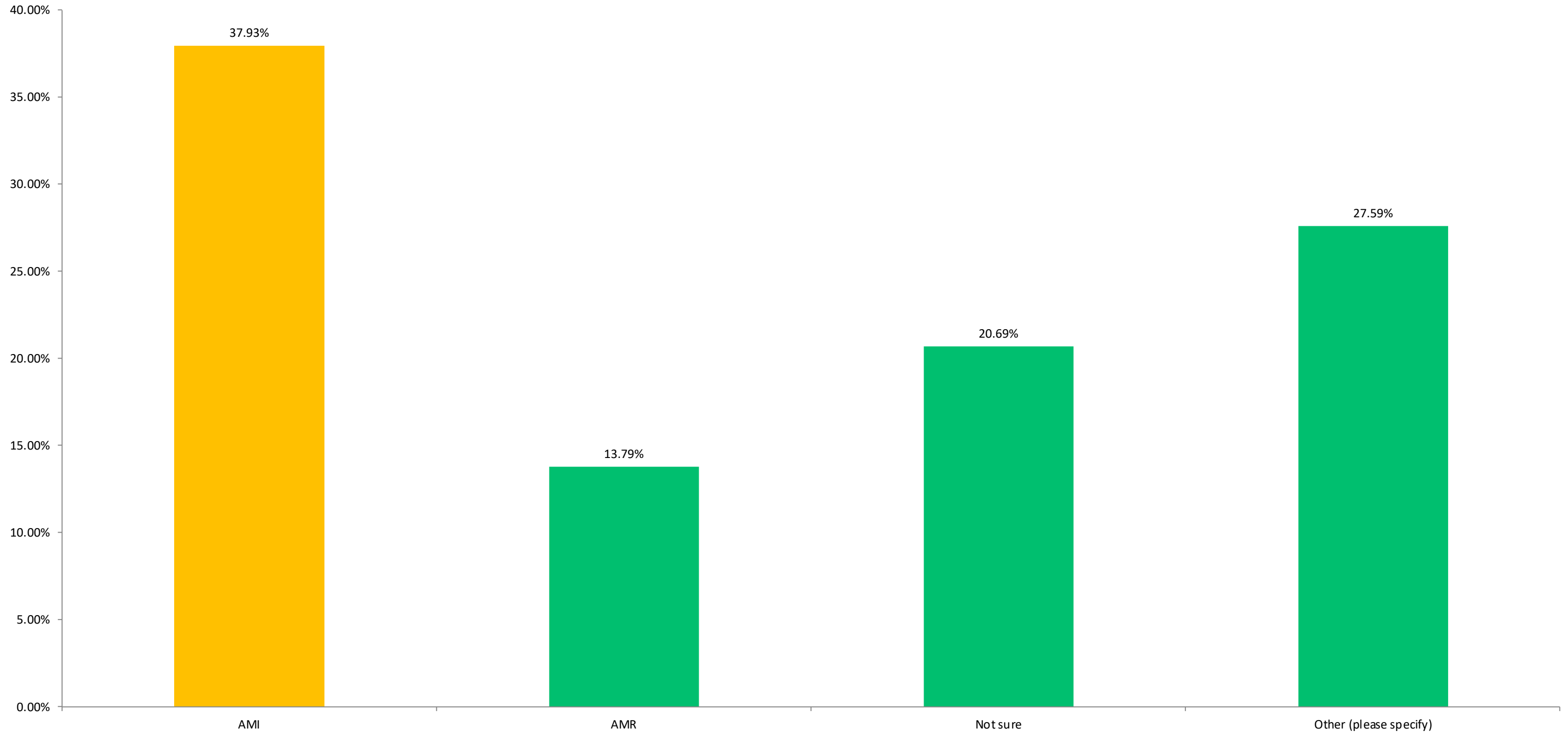
Have you deployed any sort of Advanced Metering Infrastructure?



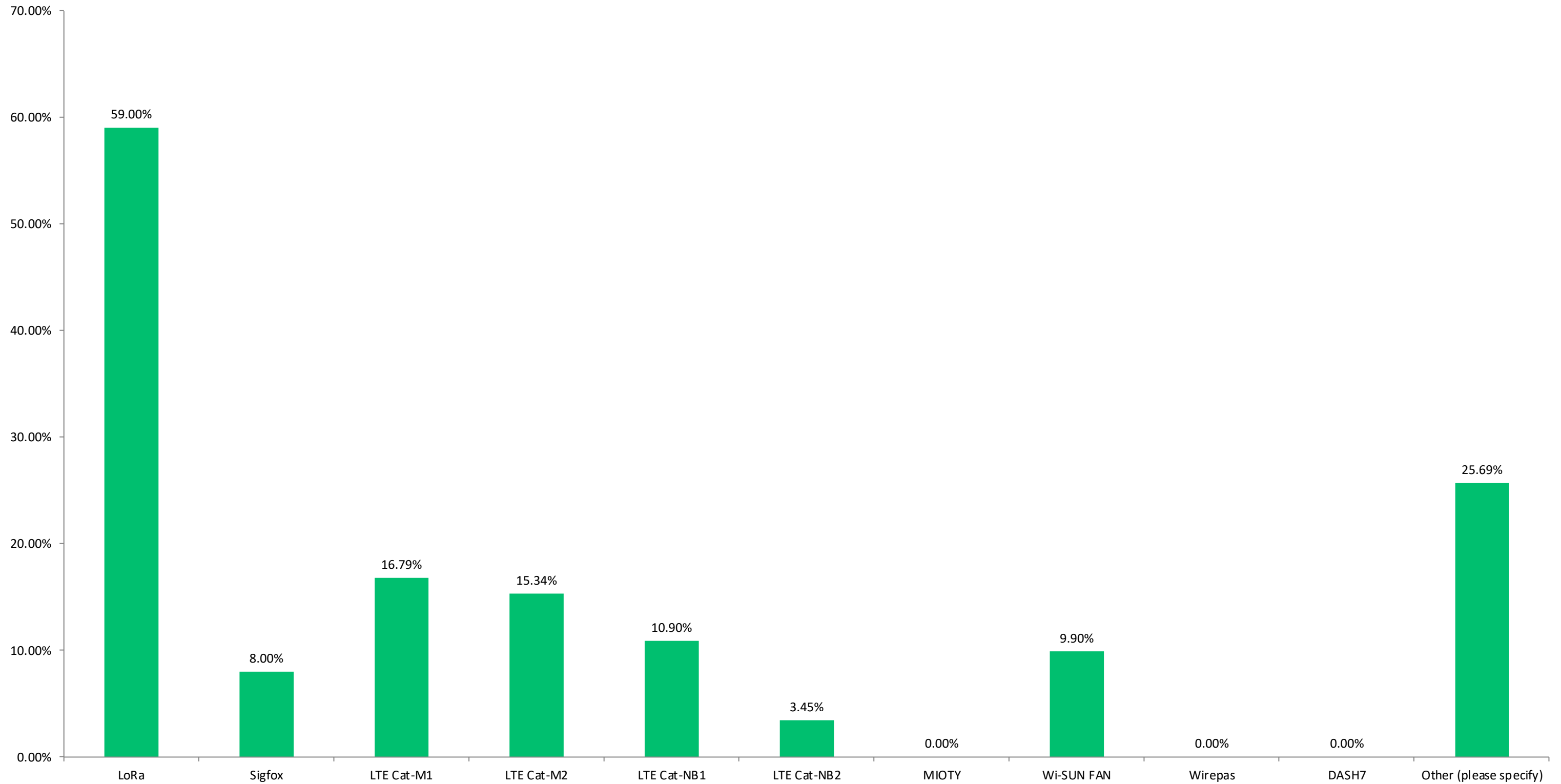
Are you a member of any of the following industry alliances?



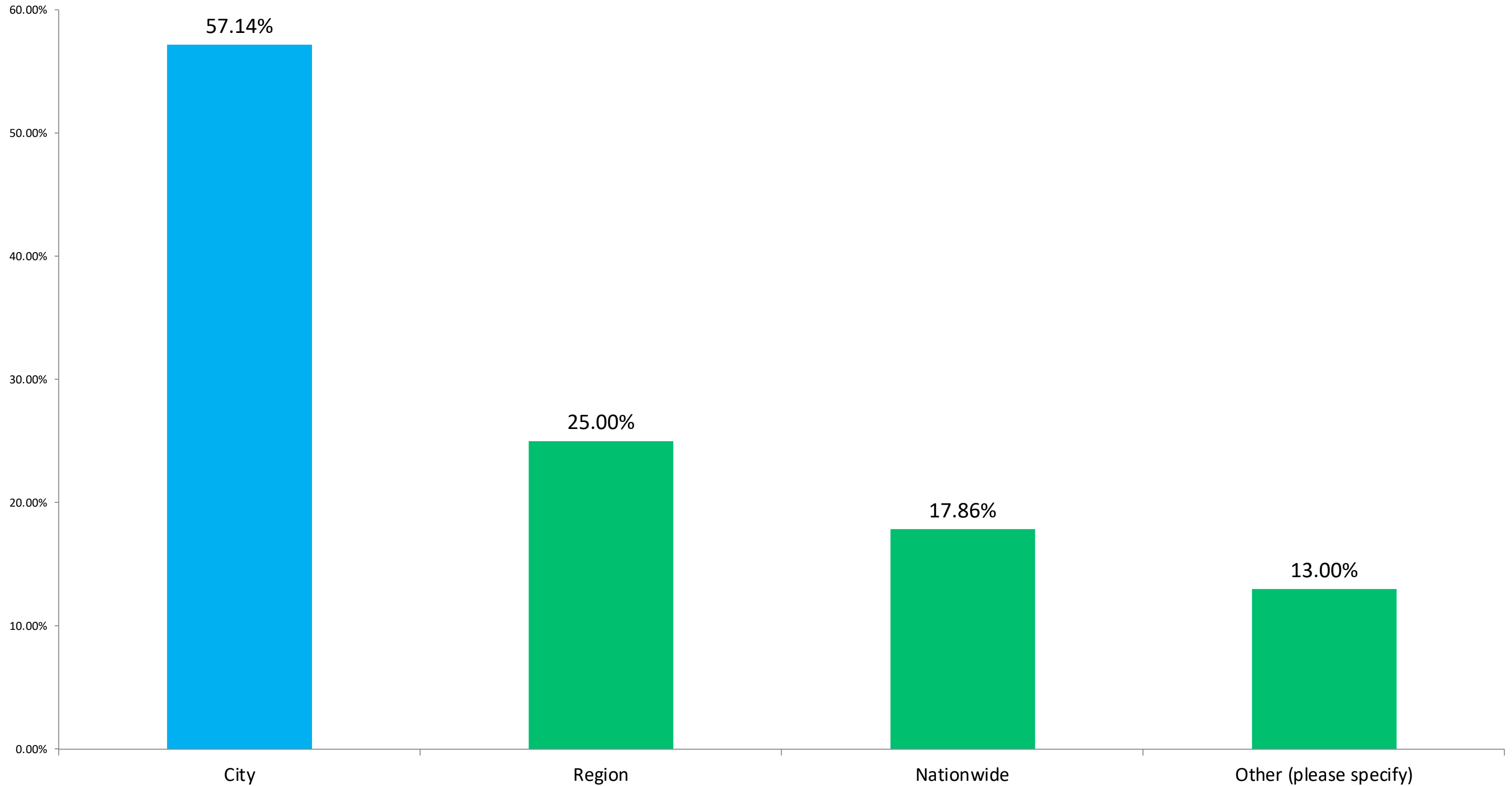
Do you currently use AMI (Advanced Metering Infrastructure with fixed network) or AMR system (walk-by or drive-by system) to collect metering data?



What low power radio technology have you deployed?



Describe the geographical scope of the deployment



Top use cases of AMI

1. Read Meters
2. Improve operational efficiency
3. Detect leaks

Top 3 requirements for AMI

1. % network availability
2. Battery life
3. Data Security

Top reasons for choosing LoRaWAN

1. Range,
2. Battery life
3. Ecosystem
4. coverage

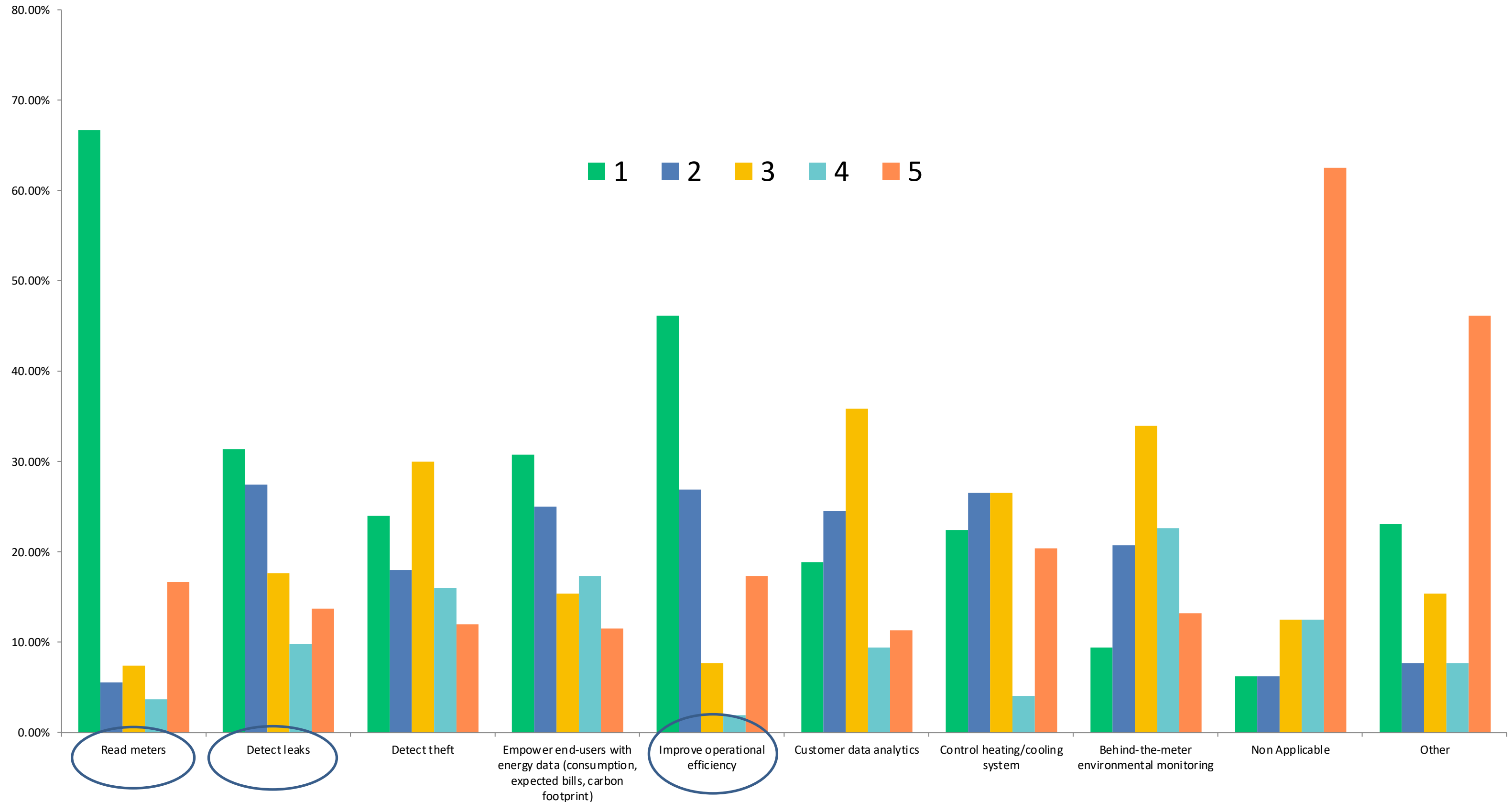
Top applications driving choice for LPWAN

1. Meter reading
2. Water/gas leak detection
3. Home Energy Management System (HEMS)
4. Smart cities

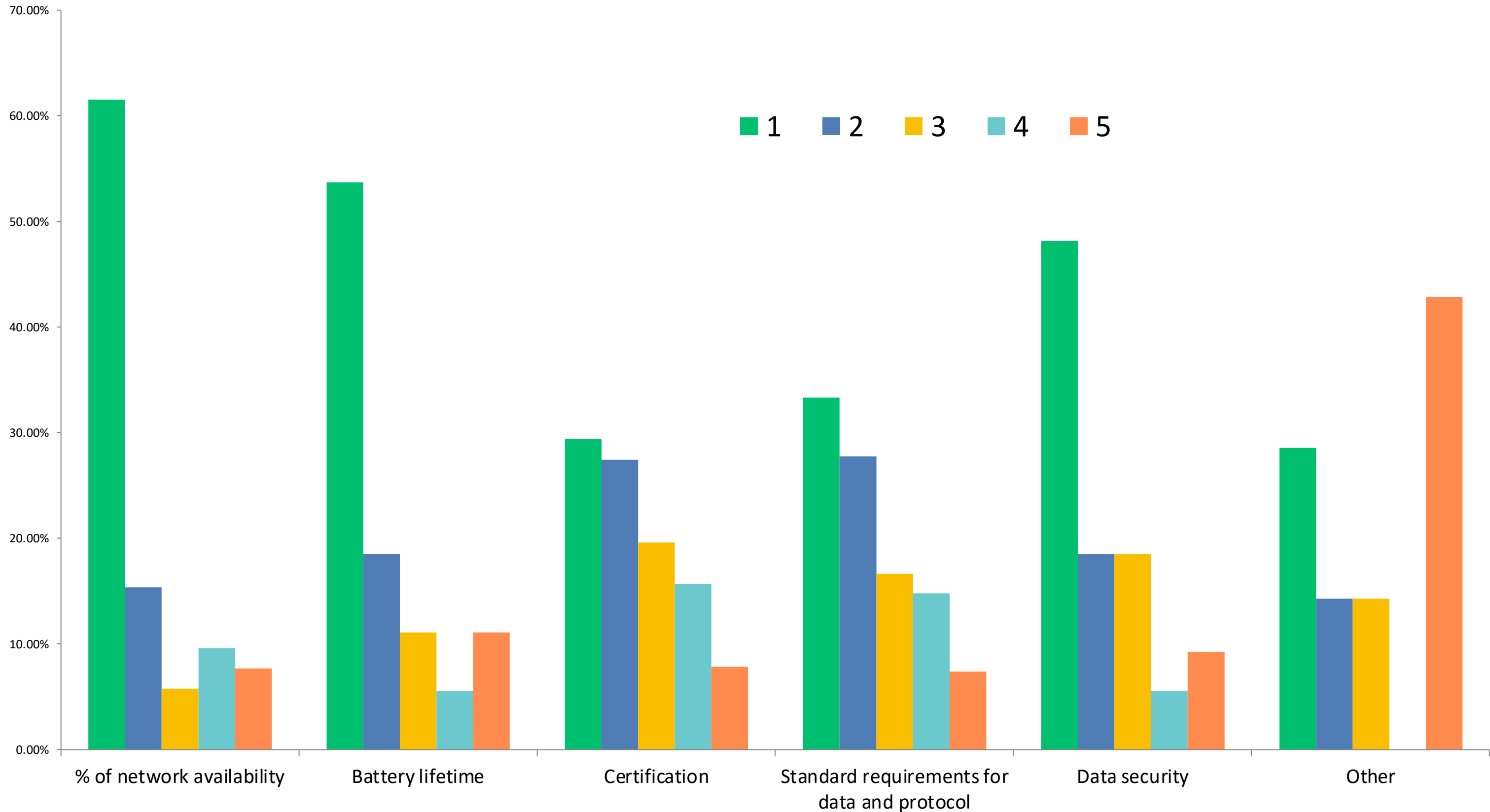
Top challenges when implementing AMI

1. Price of end nodes
2. Interoperability issues
3. Lack of budget/business model

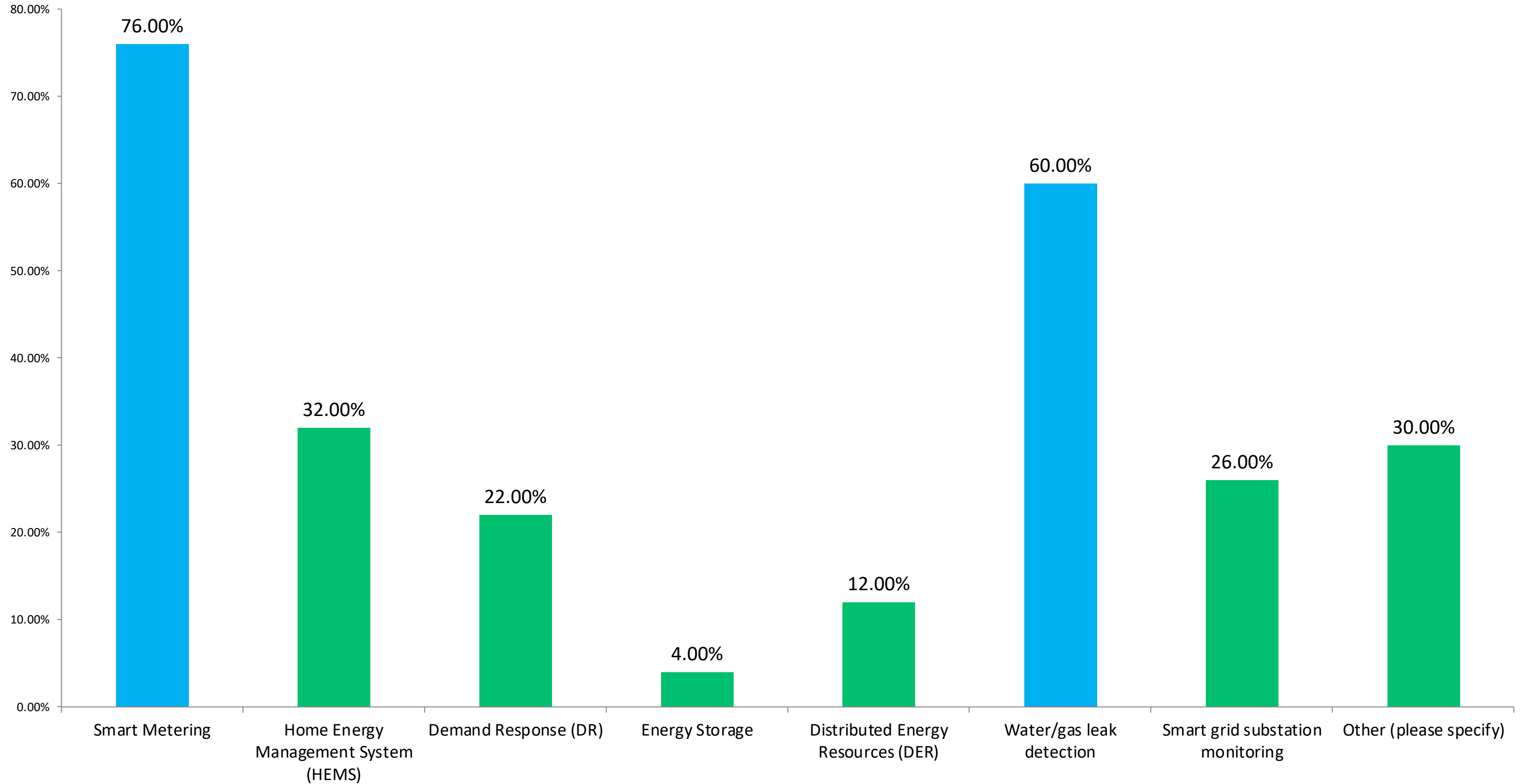
For each of the following use cases, rate the importance of your AMI?
(1 being the most important)



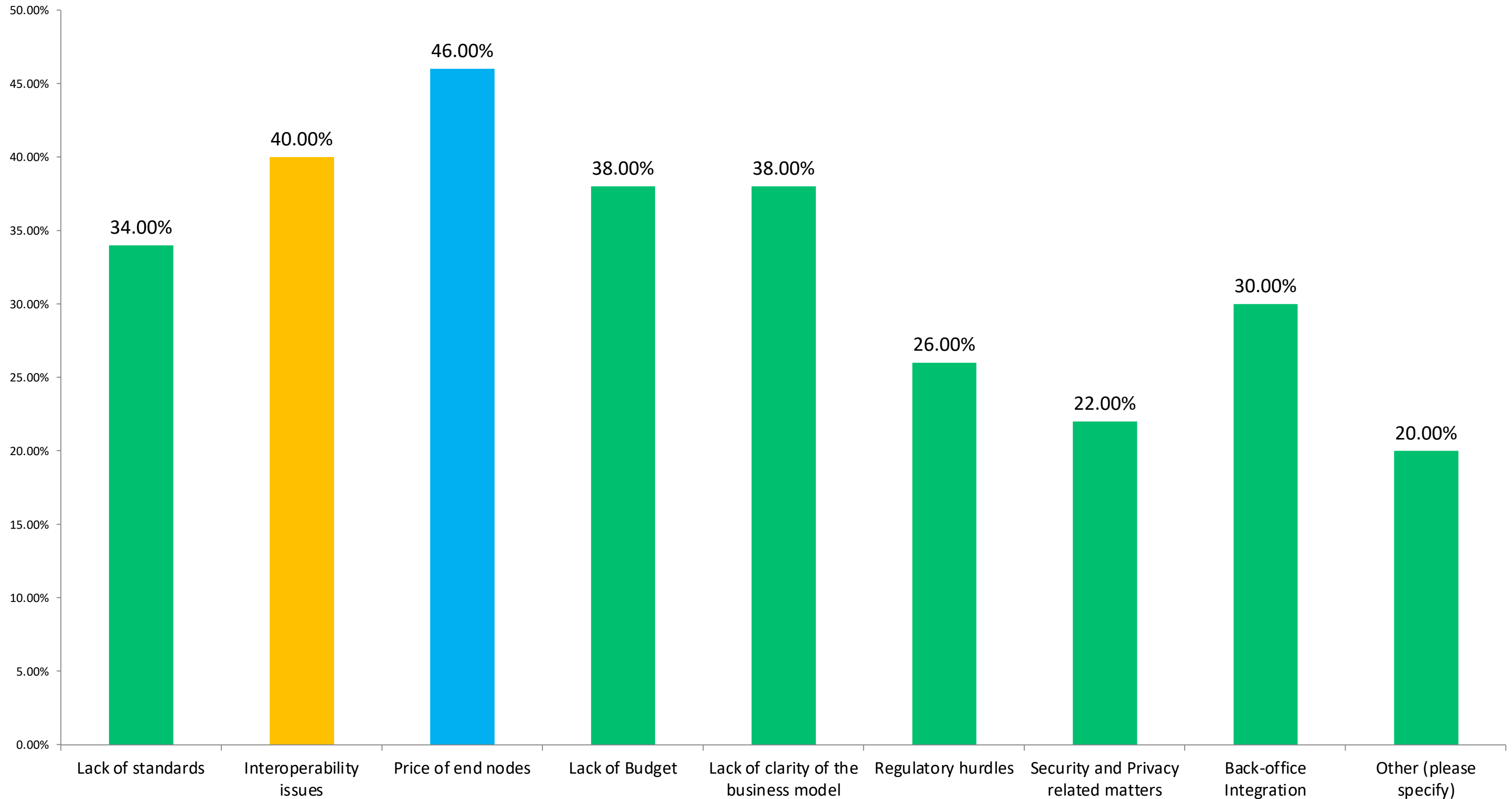
How do you rate the following AMI requirements (1 being most important)?



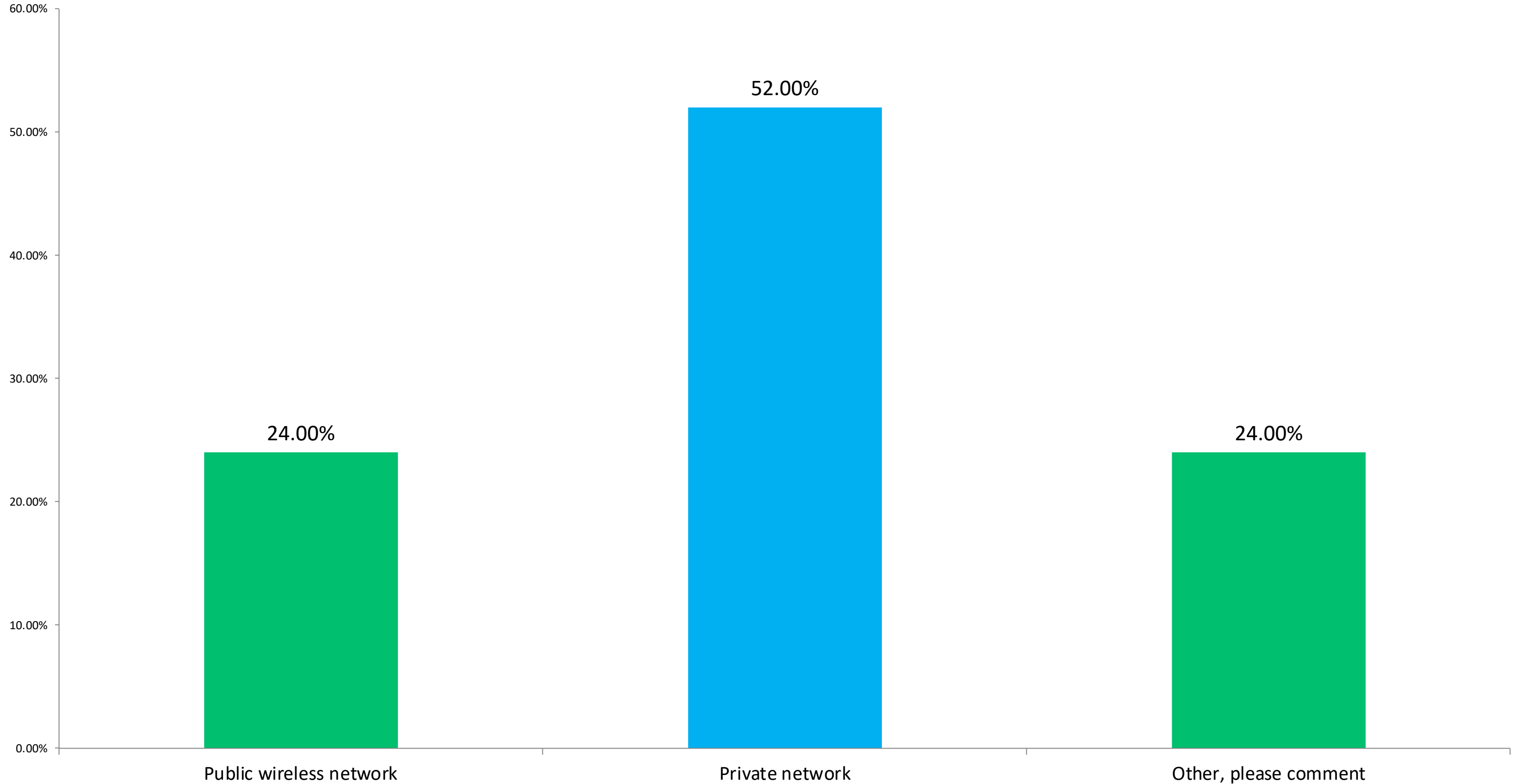
Do you use LPWAN technologies in any of the following applications



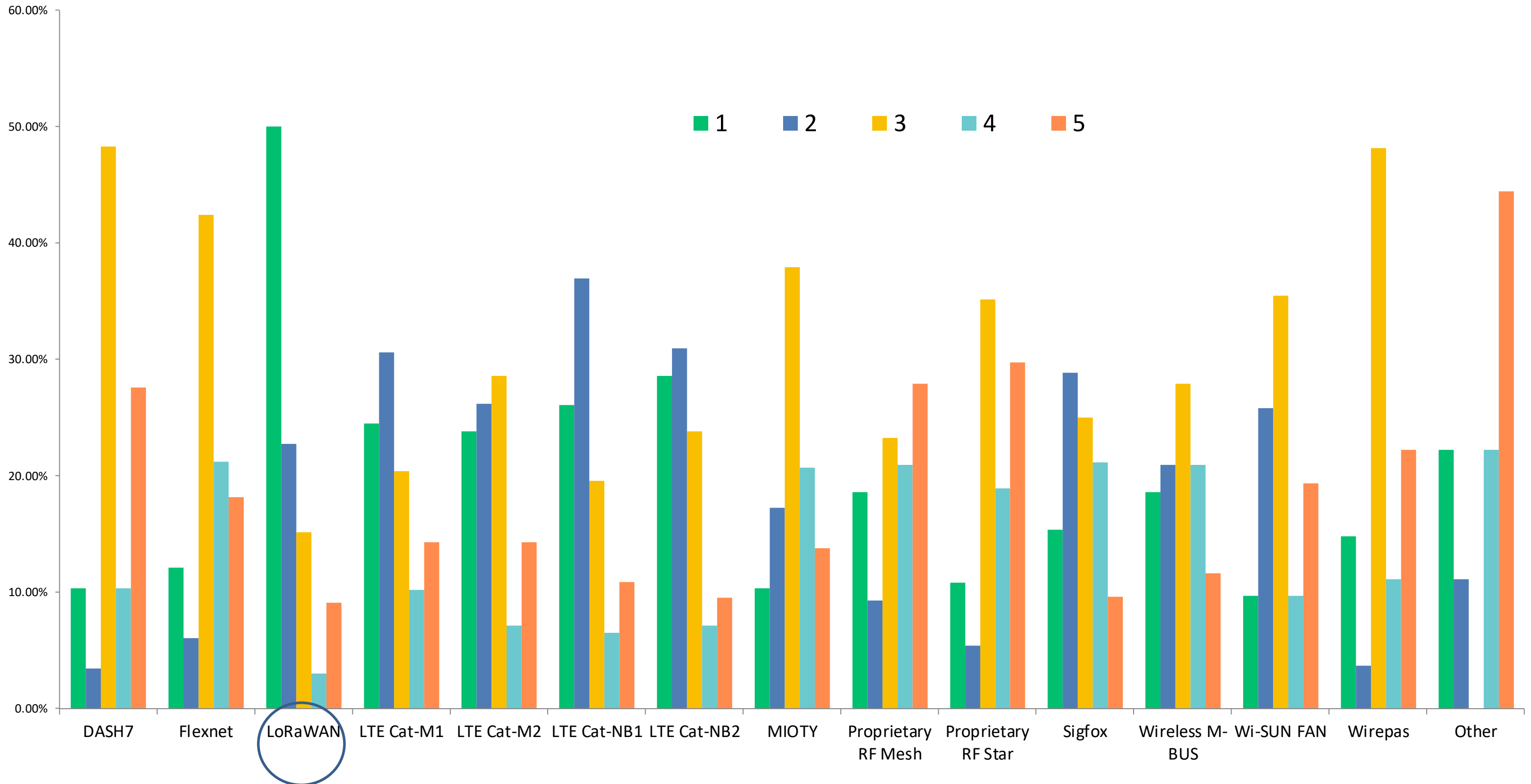
Please list the top challenges you faced when implementing AMI, please select as many as needed



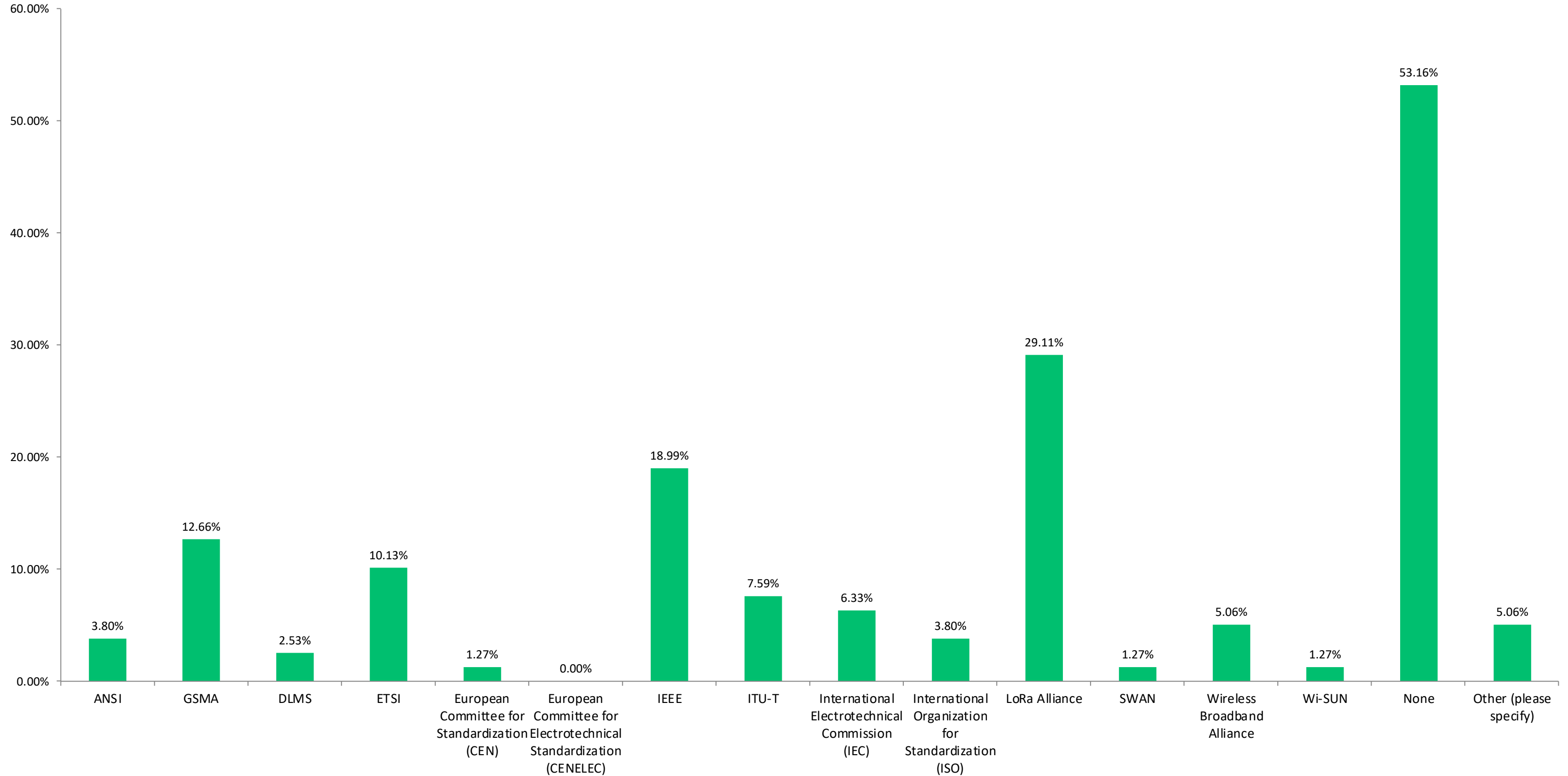
If you were deploying a new AMI project, would you choose a public wireless network or would you prefer to use an in-house private network?



How would you describe your opinion towards each technology, where 1 is Extremely Positive and 5 is Extremely Poor?



Are you a member of any of the following industry alliances?



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