SZÉCHENYI 2020

European Union

MINISTRY FOR INNOVATION AND TECHNOLOGY

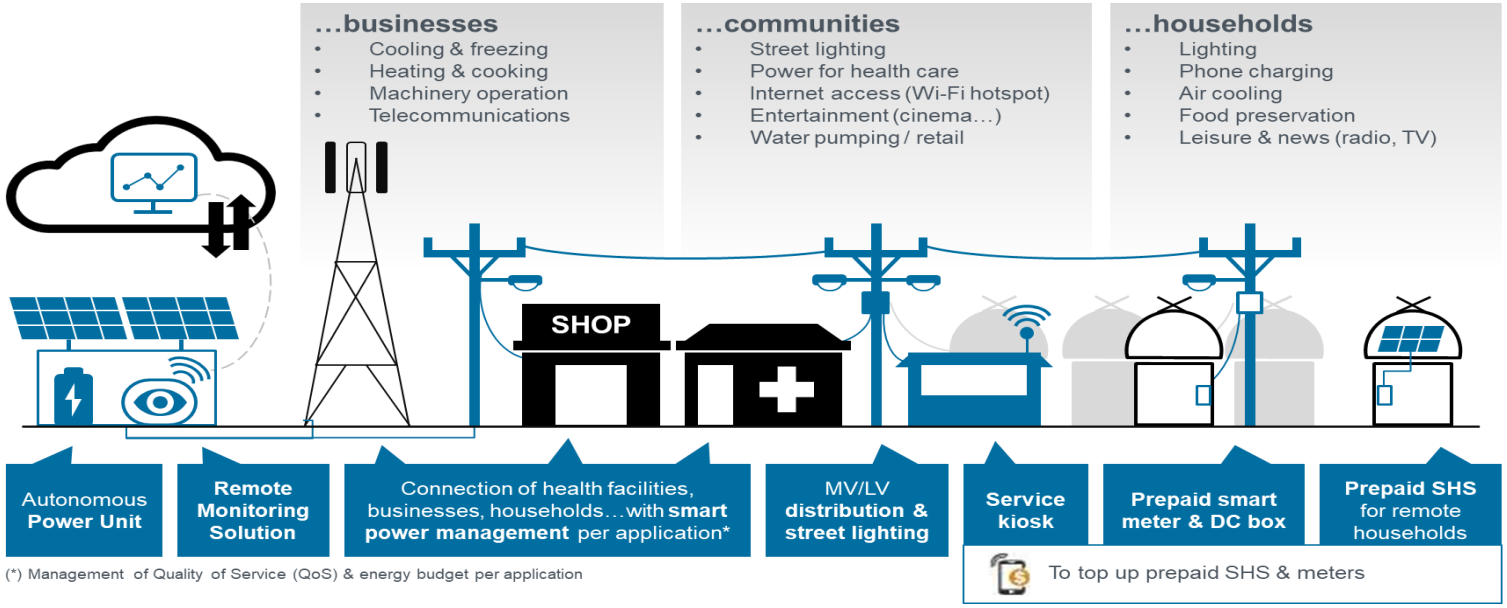
GINOP-2.2.1-15-2017-00038 RESEARCH AND DEVELOPMENT OF SMARTCITY AND SMARTVILLAGE TECHNOLOGIES AND SERVICES AT SAGEMCOM IN COLLABORATION WITH UNIVERSITIES

Smart Nanogrid/Village – Provide Remote Areas with Electricity #1

Objective: Provide less developed remote areas with cheap electricity

Means:

- Mini powerplant
- Distribution Grid
- Low consumption devices on the entire grid
- Smart meters



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Smart Nanogrid/Village – Provide Remote Areas with Electricity #2

Production

Production Site

Production Optimization – Pannon University

Distribution

Grid - Szeged University

Metering

Smart Metering, Consumption Planning – Yazoo / Szeged University

Central Control System

Distribution Optimization – Pannon University

Home Solar System

Public Lighting

Water pumps

Smart Nanogrid/Village – Provide Remote Areas with Electricity #3

- Provide 3000-4000 very poor people with electricity in remote villages in Madagascar
- With the produced and distributed energy we make it possible for people to
  - have in-house and public lighting,
  - charge mobile phones,
  - use computers,
  - store food longer,
  - etc.

Smart Grid/City – Optimize Energy Usage in Developed Countries

Objective: Provide remote or otherwise isolated areas of developed countries with energy. Price is less of a problem, but availability must be high, and optimized usage is paramount.

Means:

- Optimization algorithms
- Devices serving optimization on the entire grid
- Global and real-time monitoring

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Thank you for your attention!