## Application of Solar Panels in IoT Networks Svetislav Maric and INDAS Engineering

About us: Dr. Maric has more that 20 experience in research and development of wireless networks, as well as in system integration and test. INDAS Engineering is a SW automation company with IoT projects in many countries. These projects are based on their own equipment and expertize.

**Benefits**:

## Problem:

By 2020 there will be 50 billion connected IoT devices, many of them deployed in remote, and rural places. Application examples of these IoT devices includes agriculture, water technologies, and wildfire protection. Even if these devices require minimal power they still need a power supply and a power meter. Installation and monitoring of these is extremely expensive and time consuming and requires human participation.



## Solution:

Use as a power supply a miniature solar panel that can power one IoT device, or a cluster of devices.

## IoT Diagram with Solar Panel



- 1. Opportunity for solar panel producers to merge with the IoT market.
- 2. Reduction in cost of installing IoT network infrastructure enabling their adoption even in poorer countries.