

Vaisala Beacon



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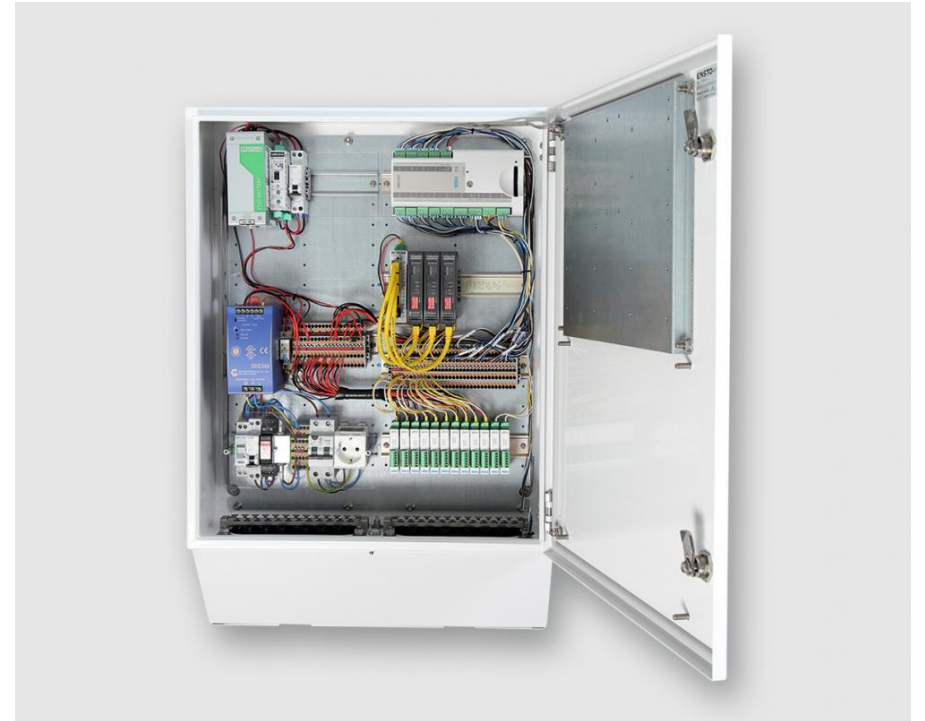
VAISALA



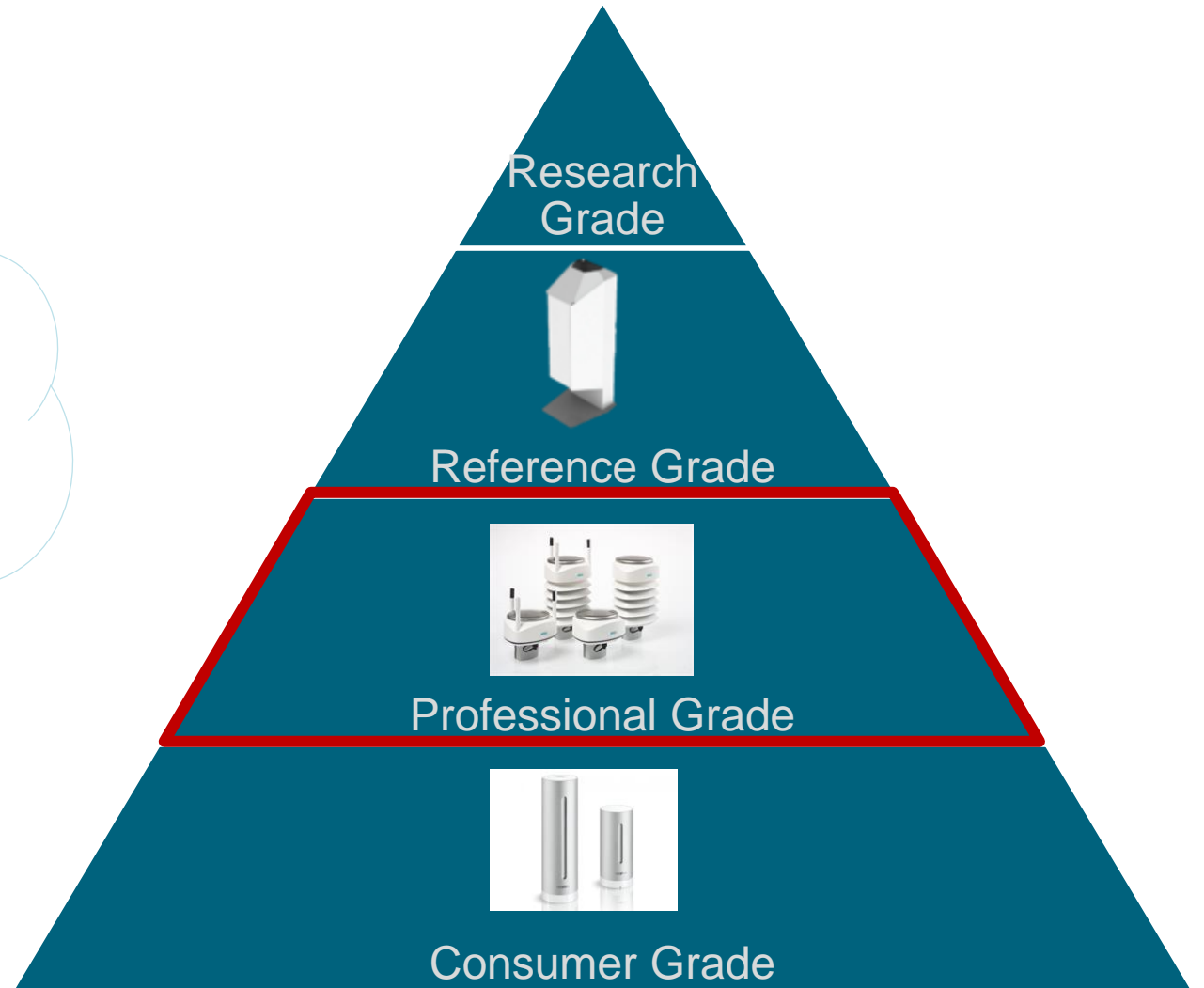
“Research shows that abnormal weather disrupts the operating and financial performance of 70% of businesses worldwide.”

Source: Harvard Business Review 2017

Tarkoista säähavainnoista on apua riskien hallinnassa, mutta havaintolaitteiston yksinkertaisuus, luotettavuus ja sopiva hintataso ovat usein vaikeita yhdistää.



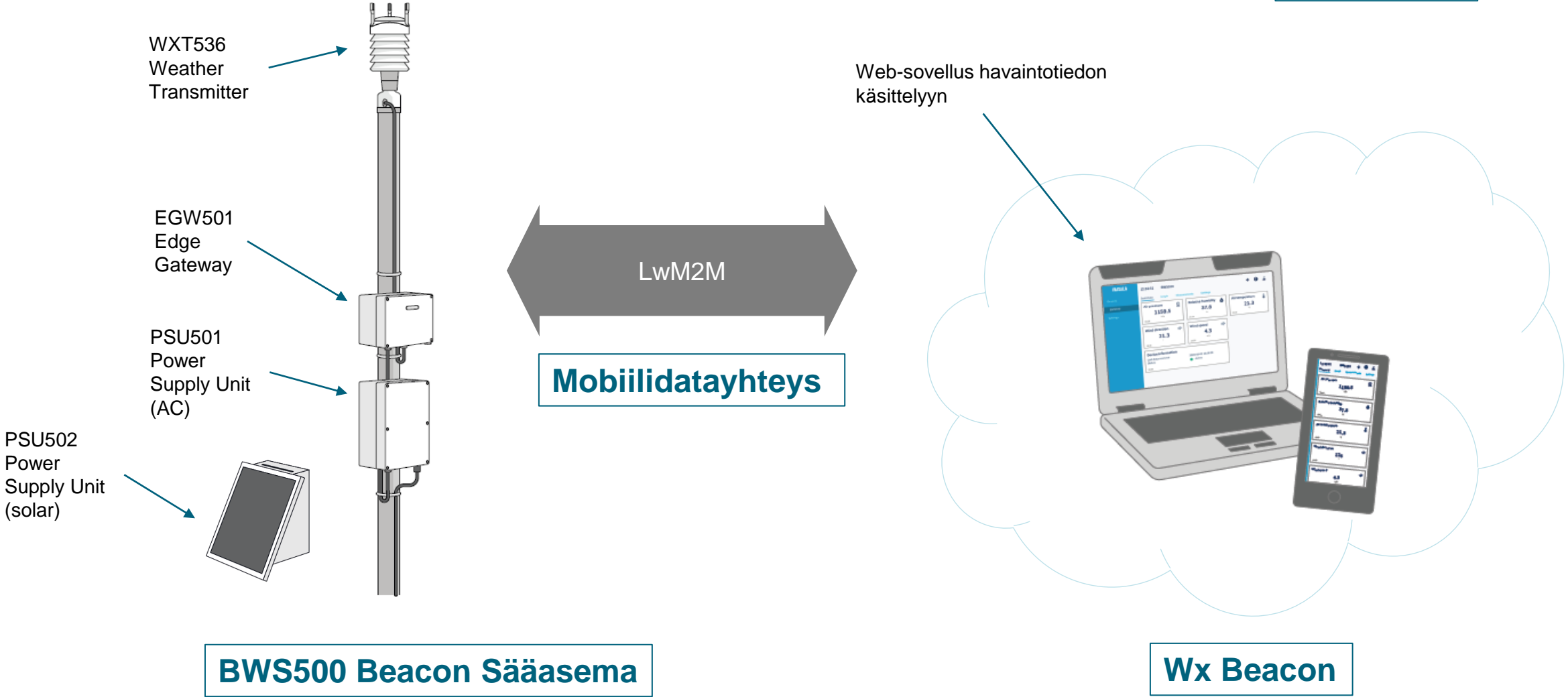
Vaisala Beacon on yksinkertainen, turvallinen ja luotettava ammattitason sääasema.



Beacon on säähavaintojärjestelmä.



Etäpalvelut



WXT536

- Ilmapaine
- Lämpötila
- Kosteus
- Sademäärä
- Tuulen nopeus
- Tuulen suunta

MTBF

>57

vuotta

Kalibroituavissa
maastossa



Kymmeniä
tuhansia
toimitettu

100+
maata

20+
eri sovellusalueita

500+
eri asiakasta
vuosittain

Laitteisto – BWS500



BEACON EDGE GATEWAY EGW501

- WIRELESS COMMUNICATION WITH 4G/3G/2G, GPS
- LWM2M PROTOCOL FOR OBSERVATION DATA AND DEVICE MANAGEMENT
- RS-485/RS-232/SDI-12 CONNECTORS FOR VAISALA WXT, AQT AND SELECTED 3RD PARTY SENSORS
- USB CONNECTOR FOR LOCAL MANAGEMENT
- POLE OR WALL MOUNTING, IP67



POWER SUPPLY UNIT PSU502

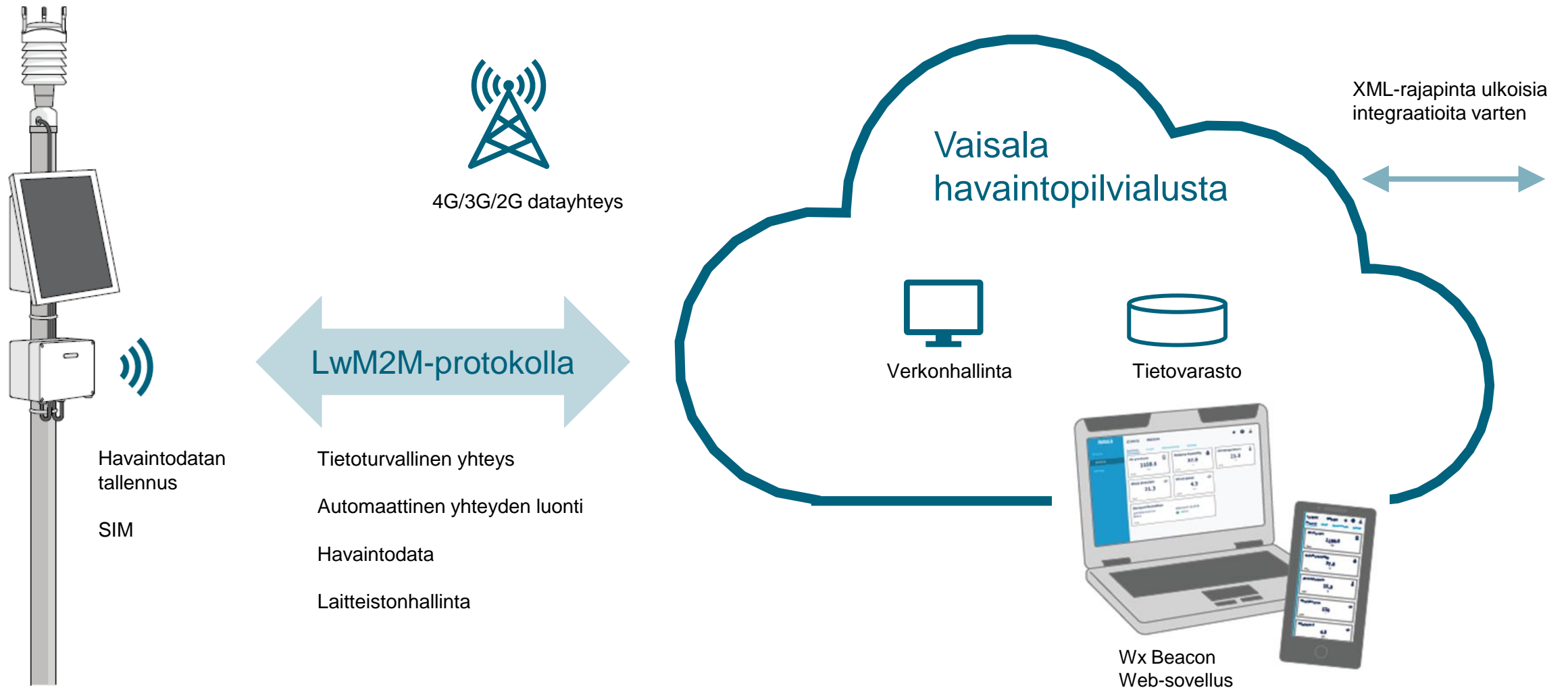
- 20W SOLAR PANEL
- PSU INTEGRATED INTO SOLAR PANEL MECHANICS
- LEAD BATTERY, 7AH

POWER SUPPLY UNIT PSU501

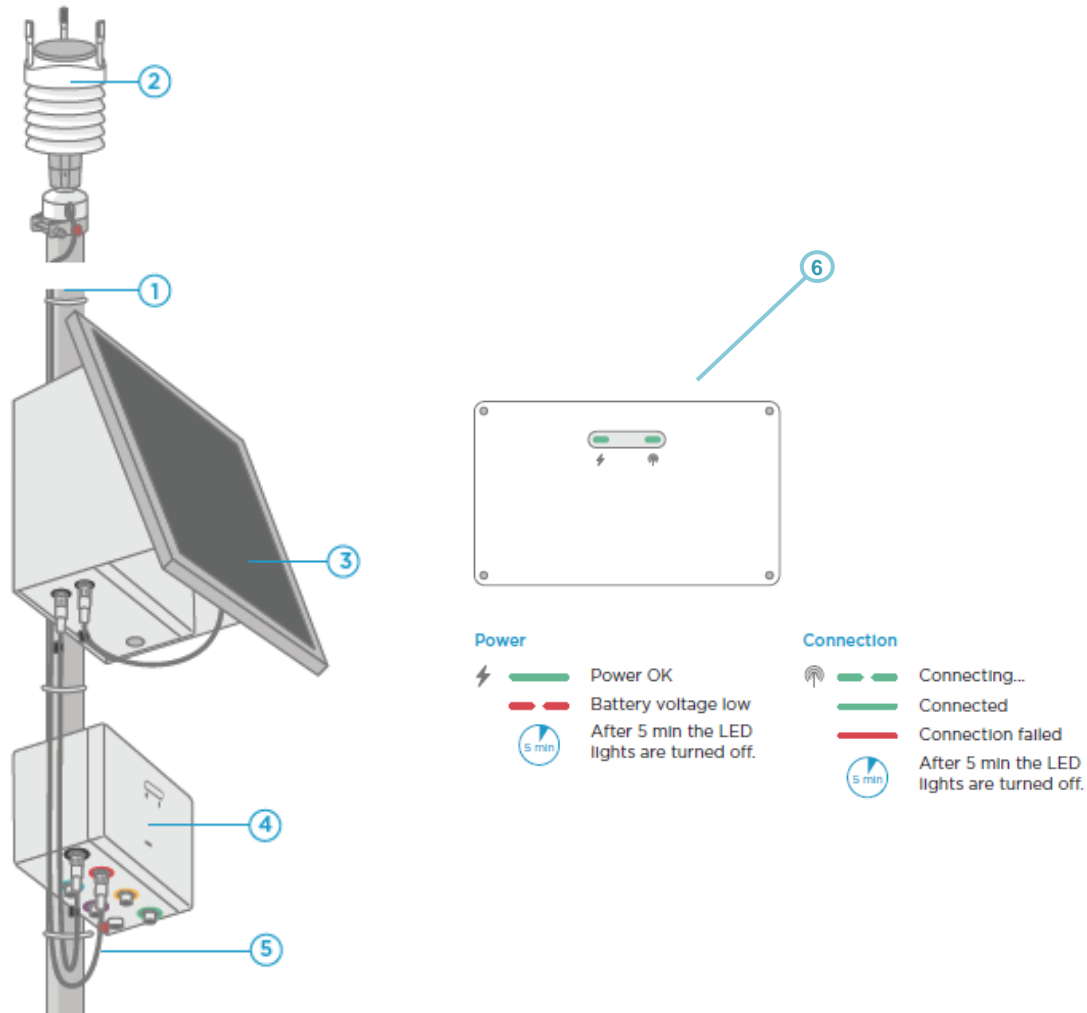
- 80-264VAC, 12 VDC, 40W
- LEAD BATTERY, 7AH
- POLE OR WALL MOUNTING, IP65



Datayhteys ja tietoaalusta



Yksinkertainen asennus



1. Valmistele asennuspaikka (masto, tripodi tms., sähkö jos tarvitaan)
2. Kiinnitä WXT536
3. Kiinnitä Edge Gateway ja tehonsyöttöyksikkö (ml. mahdollinen aurinkopaneeli)
4. Yhdistä Edge Gatewayn ja tehonsyöttöyksikön välinen kaapeli
5. (Jos käytössä on verkkosähkö, yhdistä tehonsyöttöyksikkö verkkoon)
6. Havaintotiedot näkyvät Wx Beacon –sovelluksessa muutamissa minuuteissa

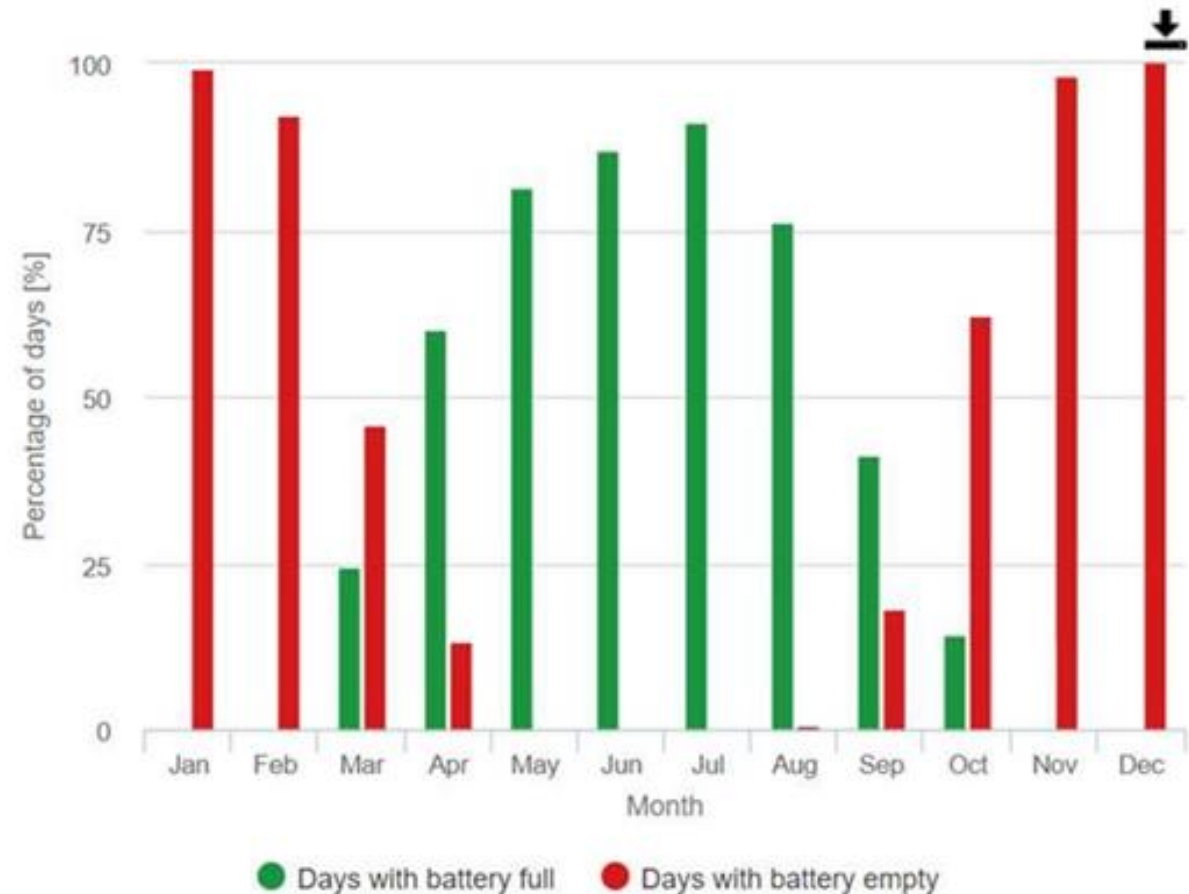
Aurinkoenergian riittävyys Suomessa

Summary

Provided inputs:	
Location [Lat/Lon]:	60.181, 24.935
Horizon:	Calculated
Database used:	PVGIS-SARAH
PV installed [Wp]:	20
Battery capacity [Wh]:	86.4
Discharge cutoff limit [%]:	10
Consumption per day [Wh]:	36
Slope angle [°]:	35
Azimuth angle [°]:	0

Simulation outputs:	
Percentage days with full battery [%]:	39.91
Percentage days with empty battery [%]:	43.93
Average energy not captured [Wh]:	43.15
Average energy missing [Wh]:	26.16

Battery performance for off-grid PV system





Rules

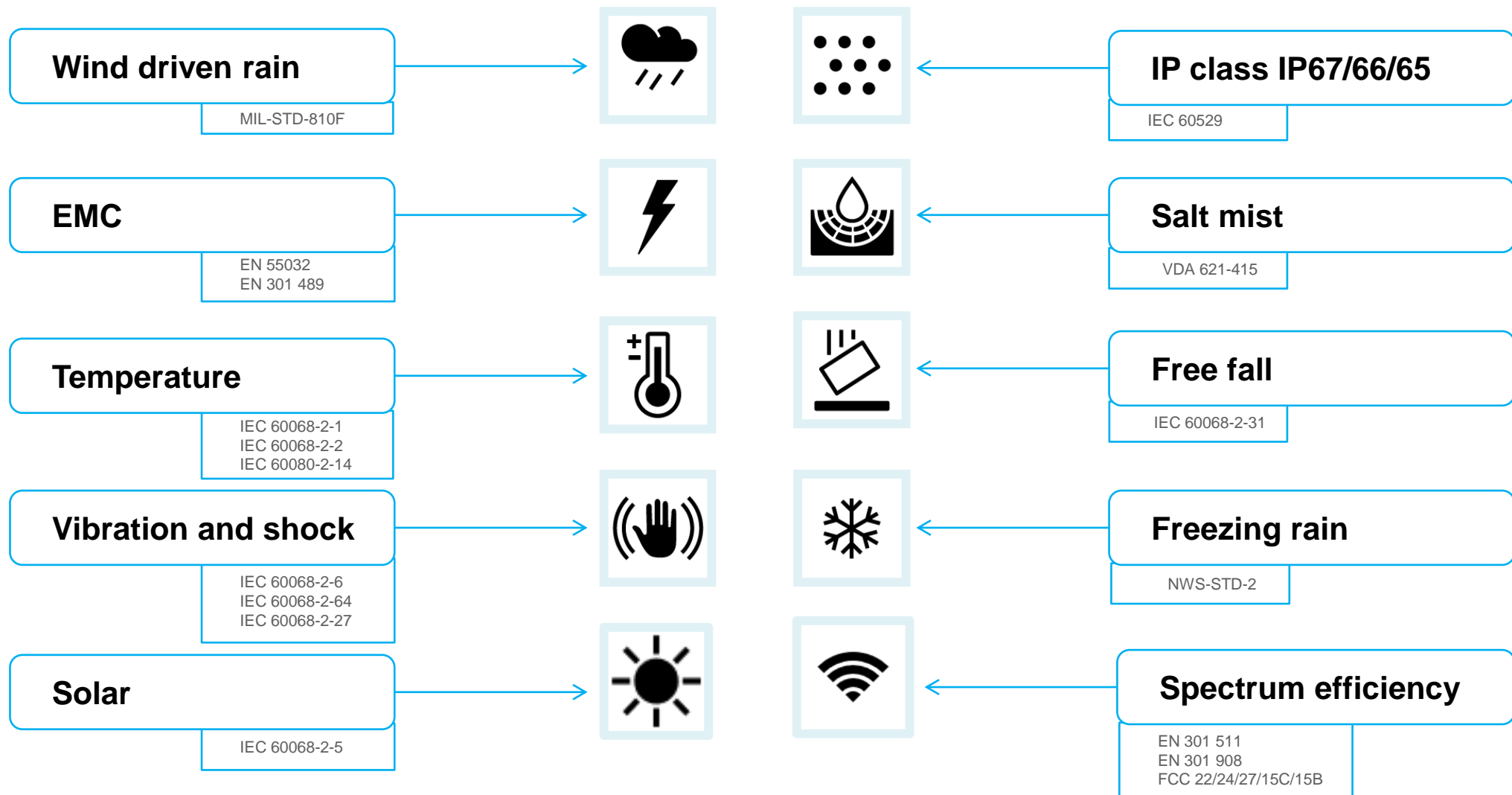
- You will submit your findings using the online tool at <https://forms.gle/9j9y7m8k8h8k8h8k>
- Provide as much information and evidence of the found vulnerability as possible
- The jury will evaluate each finding and score it accordingly
- We are not looking for "hit&back" or "biggest amount of findings by team". The focus is on finding the most severe vulnerabilities
- Teams will be the team who has submitted the most serious findings!

Each reported finding will be judged by the technical jury

- Most detailed the report - easier for description in each hour
- The jury will use the complexity of the vulnerability and the impact of the vulnerability to judge the severity of the finding
- Points will be given to the most complex and severe findings
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Nokia HackAthon 2020. Vaisala's new computing device prevailed against cyberattacks from 100 hackers

Beacon on testattu tiukkoja ympäristövaatimuksia vasten.



VAISALA

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