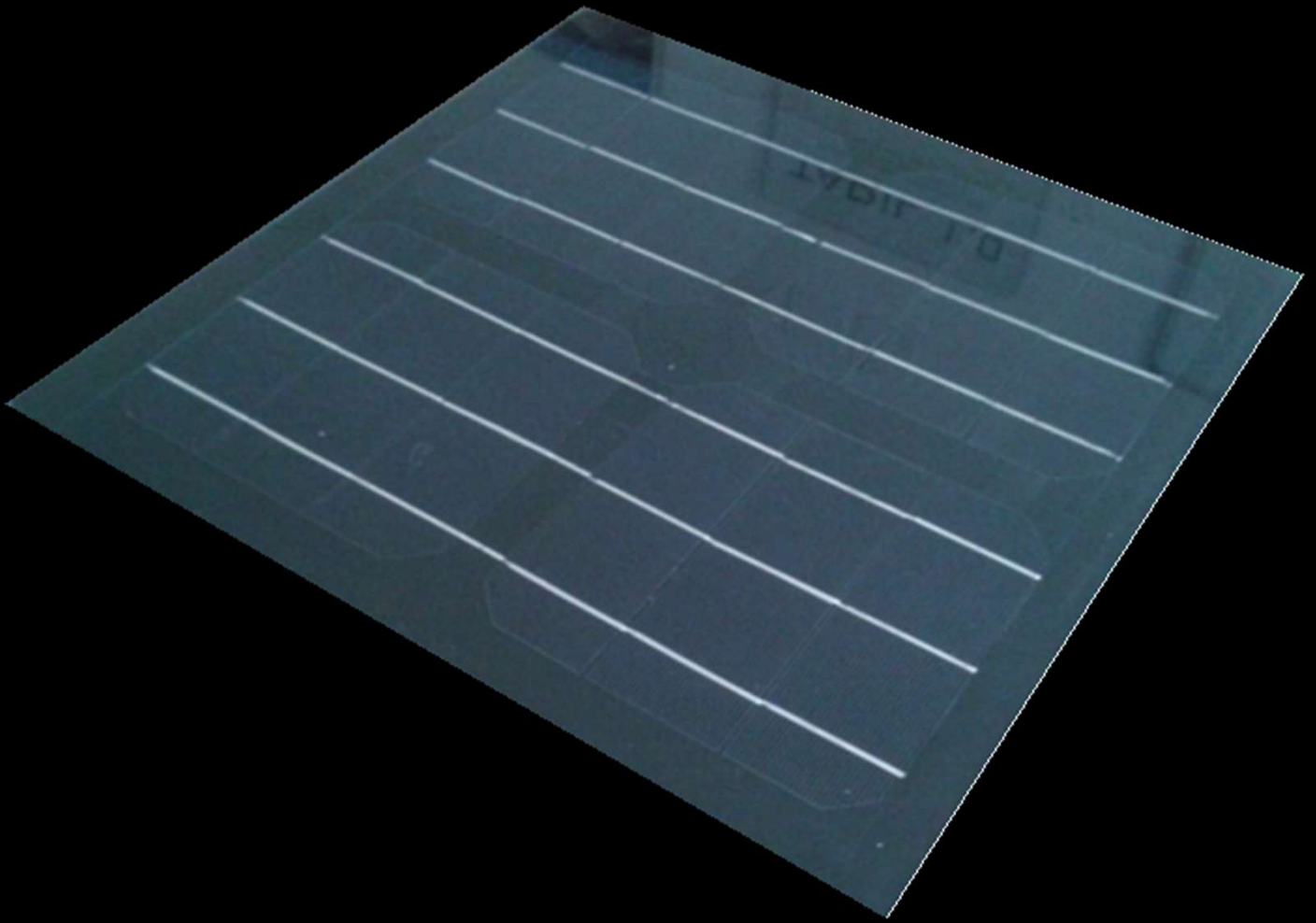


# THE INTELLIGENT SOLAR TILE



Actividades de Consultoría Técnica,  
Investigación y Servicios Avanzados, S.L.

THE FASTEST WAY TO BUILD A  
TELECOMMUNICATION NETWORK  
IN ISOLATED AREAS



**THE INTELLIGENT SOLAR TILE IS AN EVOLUTION OF THE CONVENTIONAL SOLAR TILE THAT WAS INVENTED AND PATENTED BY ACTISA**

**THE SOLAR TILE WAS DEVELOPED TO SUPPLY ENERGY FOR LOW-CONSUMPTION DEVICES IN THE SMART CITY ENVIRONMENT.**

**THE ORIGINAL SOLAR TILE WAS DESIGNED WITH MATERIALS SUITABLE FOR THEIR DEPLOYMENT IN PAVEMENTS, RESISTANT FOR HEAVY TRAFFIC AND VALID SLIPPERINESS FOR PEDESTRIANS.**

**THREE GENERATIONS OF SOLAR TILES HAVE ALLOWED THE IMPROVEMENT AND ADAPTATION TO USER'S REQUIREMENTS**

**THE INCLUSION OF A MICRO-HARDWARE MAKES POSSIBLE TO PROVIDE INTELLIGENCE TO THE SOLAR TILE WITH THE MAIN INTENTION OF ENABLING INFORMATION AND COMMUNICATION FUNCTIONS.**



**THE MAIN APPLICATIONS OF THE INTELLIGENT SOLAR TILE ARE THE FOLLOWING:**

### **- AMPLIFICATION OF THE WIFI SIGNALS' RANGE.**



**THE SOLAR TILE ALLOWS AMPLIFYING THE WIFI SIGNALS' RANGE FROM A STATIC ROUTER LOCATION.**

**SEVERAL TILES CAN BE USED TO REBOUND THE SIGNAL IN LONG DISTANCE**

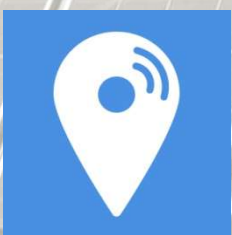
### **- GENERATION OF INFORMATION INTERCHANGE POINTS**



**THE INTELLIGENT SOLAR TILE INCLUDES A MICRO-HARDWARE ABLE TO STORE INFORMATION, WHICH CAN BE DOWNLOADED WHENEVER THE USER WANTS.**

**THE ACCESS CAN BE RESTRICTED BY A PASSWORD AND THE INFORMATION ENCODED.**

### **-SUPPORT FOR PRECISE LOCATION**



**GPS COORDINATES CORRECTION CAN BE DEPLOYED BY THE IMPLEMENTATION OF THE UTM COORDINATES OF EACH SOLAR TILE IN A SPECIFIC SOFTWARE.**

**THE USER'S GPS LOCATION CAN BE CORRECTED MAKING USED OF THE APPLICATION CADIOP, POWERED BY ANDROID.**

**EVEN THE LOCATION IN INDOOR SPACES IS AVAILABLE BY A WPS ALGORITHM THAT HAS BEEN IMPLEMENTED IN CADIOP.**

**PRECISE LOCATION CAN BE USED FOR VIRTUAL VISION ON SITE**



## AMPLIFICATION OF THE WIFI SIGNALS' RANGE



**A complete telecommunication network can be generated with intelligent solar tiles without any connection to the grid.**

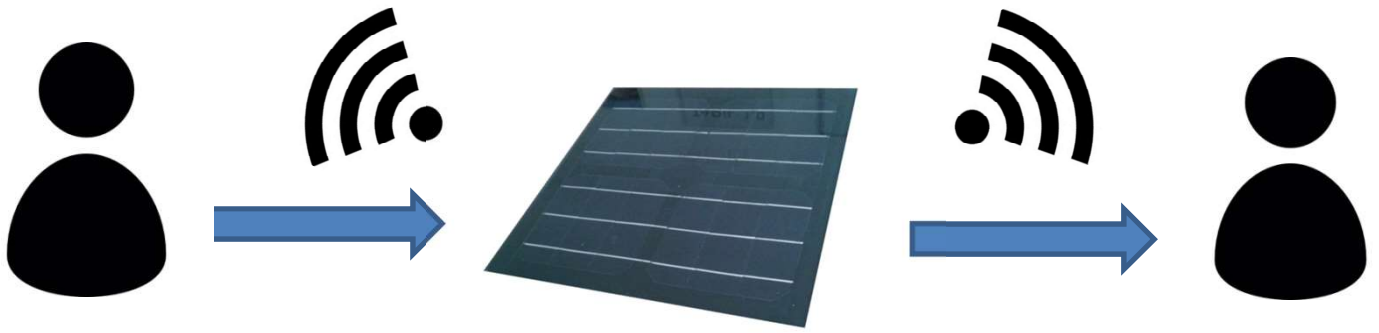
**A “master tile” can be implemented to connect via GPRS or GSM.**

**Information can be sent to the cloud from each master tile.**

**WIFI signal can be bounced amplifying the area of service.**



## INFORMATION INTERCHANGE POINTS



INTELLIGENT SOLAR TILES CAN BE IMPLEMENTED AS COMMUNICATION MILESTONES.

ACCESS TO STORED INFORMATION CAN BE OPEN OR RESTRICTED TO EVERYBODY

DATA CAN BE ALSO ENCODED





# SUPPORT FOR PRECISE LOCATION AND VIRTUAL VISION

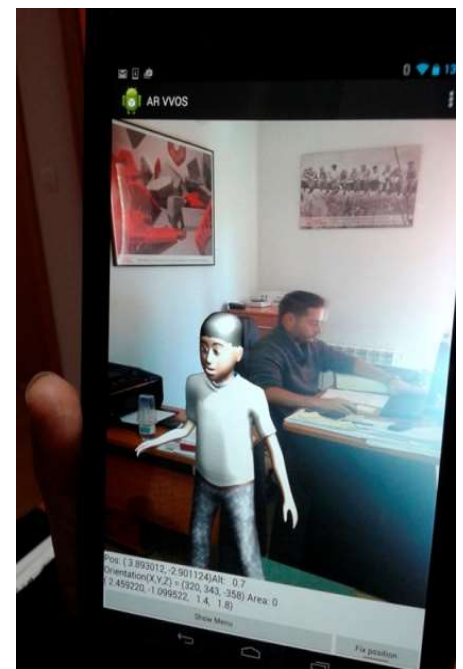
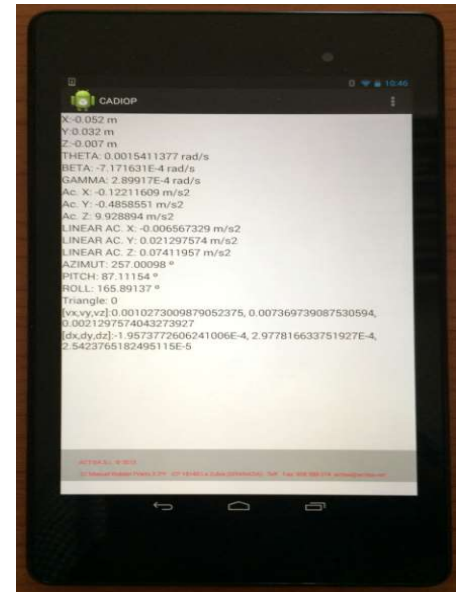


MAKING USE OF THE APPLICATION **CADIOP**, (COMBINED, AUTOMATIC AND DYNAMIC INDOOR AND OUTDOOR POSITIONING), AND THE APPLICATION **VVOS**, (VIRTUAL VISION ON SITE), POWERED BY ANDROID, WE CAN VISUALIZE **VIRTUAL OBJECTS IN PRECISE COORDINATES ACCORDING TO THE USER'S LOCATION.**

MANY STRATEGIC USES CAN BE DEPLOYED WITH OUR SOLAR TILES, AND THE APPLICATIONS CADIOP AND VVOS.

THE SOLAR TILES **CAN BE REMOVED AND REUSED WHENEVER THE USER WANTS.** IN CASE THE USER WANTS TO USE THE TILE FOR GPS COORDINATES CORRECTION OR FOR PRECISE INDOOR OR OUTDOOR USER'S LOCATION, THE NEW COORDINATES FOR THE SOLAR TILES MUST BE IMPLEMENTED.

A COMPLETE **MANUAL** IS PROVIDED WITH THE SOLAR TILE TO INSTALL IT AND TO CONNECT WITH WIFI ROUTERS OR TO BE USED IN PRECISE LOCATION



**VVOS**  
VIRTUAL VISION ON SITE



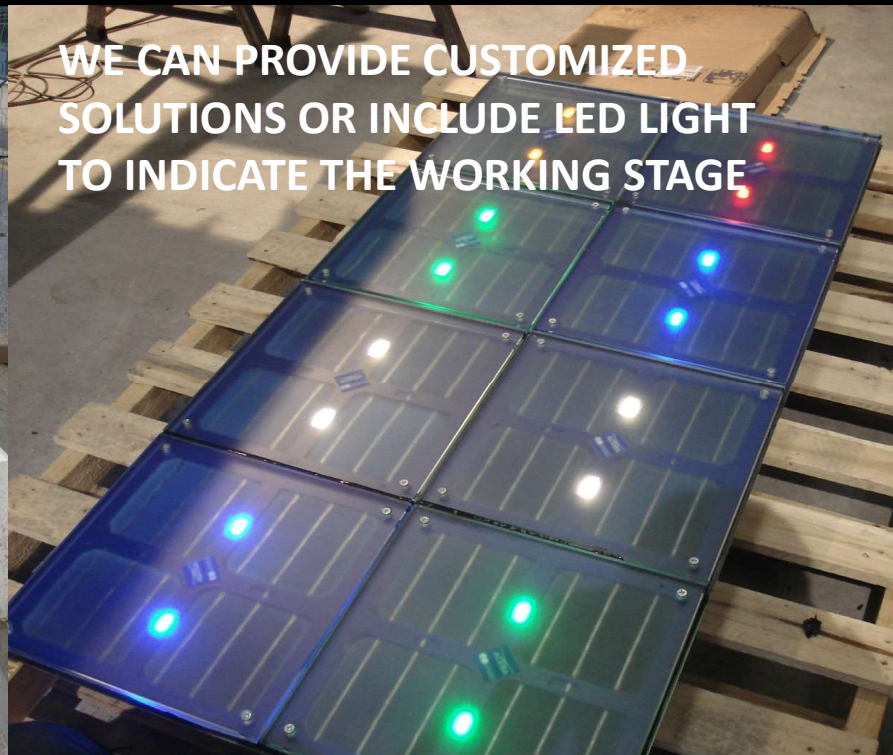
# INSTALLATION AND COMBINATION WITH SOLAR TILES



THE INSTALLATION OF SOLAR TILES IS QUITE EASY



WE CAN PROVIDE CUSTOMIZED SOLUTIONS OR INCLUDE LED LIGHT TO INDICATE THE WORKING STAGE



IT CAN BE INTALLED ON A ROOF, ON A SIDEWALK, OR OTHER PLACES TAKING INTO ACCOUNT THE SOLAR RADIATION, AND THE WIFI RANGE



CONVENTIONAL MEANS OF TRANSPORT CAN BE USED TO SUPPLY THE SOLAR TILES.



ASSOCIATIONS WITH CONVENTIONAL SOLAR TILES CAN BE ALSO PROVIDED IN THE CASE MORE ENERGY IS NEEDED.



ACTISA has its main office in Spain and its team operates worldwide in national and international projects.

Do not hesitate to contact us in case you are interested in the application of the Intelligent Solar Tile.



ACTISA OPENS A WORLD OF POSSIBILITIES TO YOU.  
DEVELOP YOUR COMPANY. PLACE IT IN A NEW ERA.  
INNOVATE FROM ACTISA'S HAND.



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