

# PERSONAL ENERGY ADMINISTRATION KIOSK APPLICATION

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**AN ICT-ECOSYSTEM FOR ENERGY SAVINGS THROUGH  
BEHAVIORAL CHANGE, FLEXIBLE TARIFFS AND FUN**

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Partner logo (optional)

Name, organisation, date etc

This project has received funding from the European Union's Horizon 2020 research and innovation program under the grant agreement No. 695945. Call EE-11 2015 – New ICT-based solutions for energy efficiency.



**10 PARTNERS**

smart metering

**7 COUNTRIES**

*Energy efficiency*

*ICT*



*Behavioral change*

**1 938 085€ BUDGET**

*social networks*

*Serious gaming*

**3 years DURATION**



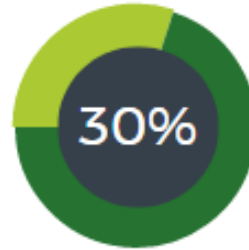
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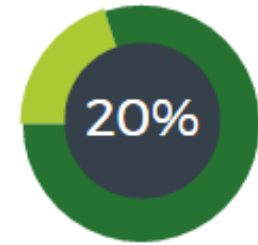
# PARTNERS



SMEs



RTOs



Utilities



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# MOTIVATION

80 % of EU consumers must be equipped with smart metering systems by 2020



Lack of proven ICT systems while electricity utilities are ready to invest



Solutions for consumer engagement needed but underdeveloped



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# OBJECTIVES

## EMPOWER THE END-USER



Develop individualized savings opportunities and enable energy consumption control.

## RESEARCH BEHAVIOURAL CHANGE



Gain insights on engagement, serious gaming, load shifts and sensitivity to prices of users in an energy efficiency context.

## REMOVE BARRIERS FOR MARKET UPTAKE



Realizing prompt roll-out, ready-to-sign contracts, cost-benefit analyses, full data protection.

## CREATE COMPETITIVE ADVANTAGE FOR THE PROVIDER



First market solution for forwarding the benefits of clean & cheaper renewable energy to consumers.

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# FUNCTIONS

A SMART PHONE/TABLET APP  
WITH CUSTOMIZABLE GRAPHICAL  
USER INTERFACE

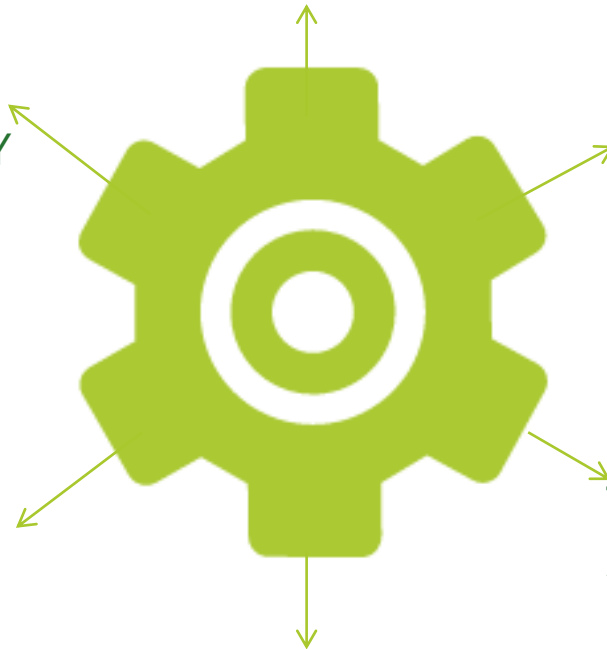
CONNECTS TO THE  
USER'S EXISTING ENERGY  
PROVIDER

HOSTED IN THE PROVIDER'S  
CENTRAL SYSTEM

CONTINUOUSLY  
ENGAGES THE USER

SUPPORTS LOAD SHIFTS  
TRANSITIONING AND DYNAMIC  
ACCOUNTANCY SYSTEM

ENABLES SENDING NOTIFICATIONS  
FROM PROVIDER TO USER



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# CENTRALISED SERVER AND PROCESSING UNIT



- ✓ Stores the smart meter consumption data
- ✓ Stores, forwards and manages the dynamic electricity prices
- ✓ Handles household's requests
- ✓ Handles provider's messages.

## Interconnects:

- ✓ Households with each other
- ✓ With their energy provider
- ✓ With the electricity market.

## USER INTERFACE

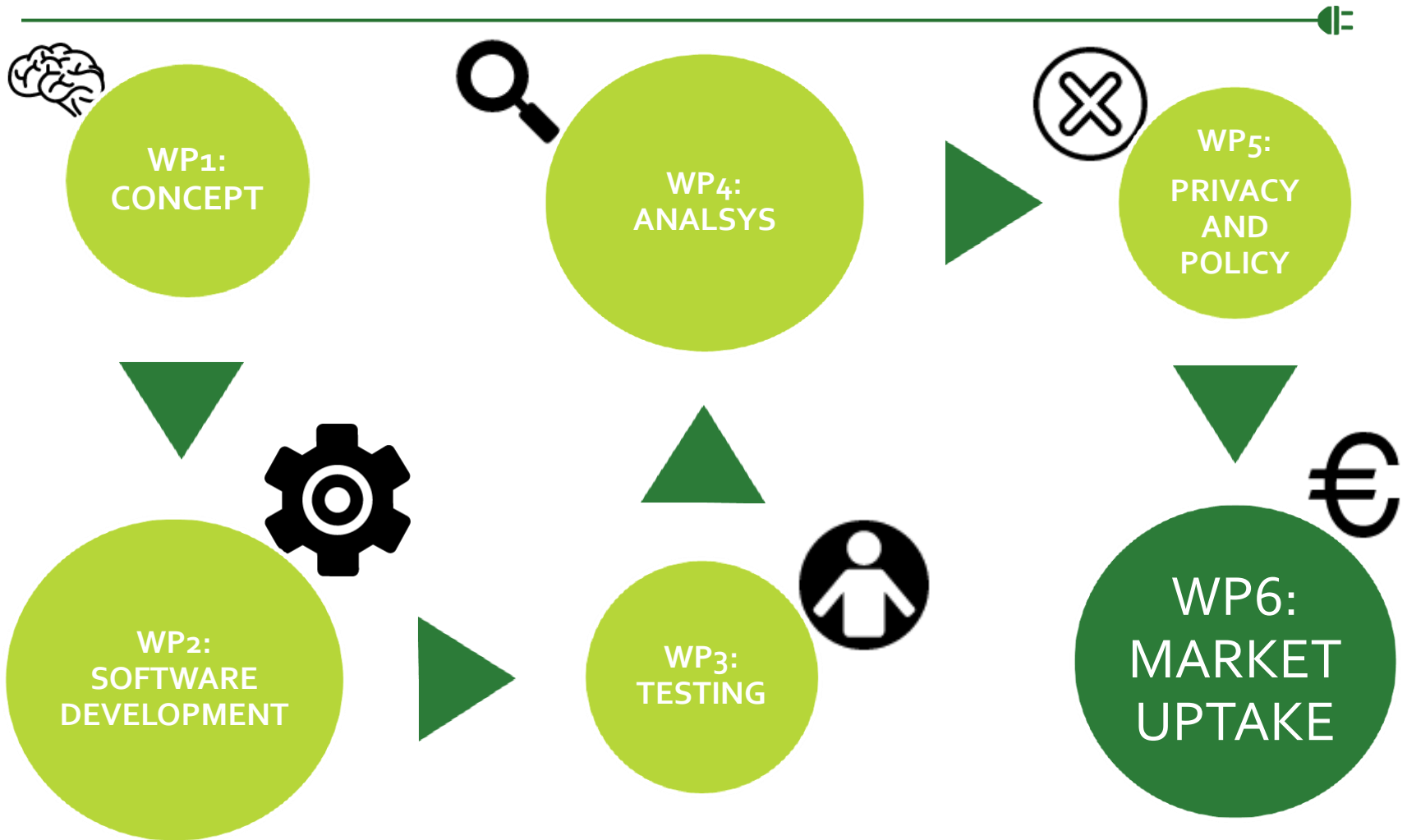
- ✓ Smart phone and tablet app for Android and iOS
- ✓ Enables dynamic prices
- ✓ Serious gaming
- ✓ Social networking.



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# METHOD



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# EXPECTED IMPACT



**#1**

ADOPTION OF  
A MORE  
ENERGY  
EFFICIENT  
LIFESTYLE

~€160

**#2**

ANNUAL PER  
HOUSEHOLD  
MONETARY  
SAVINGS OF  
(ON  
AVERAGE)



**#3**

USE OF SMART  
METER  
INFRASTRUCTURE  
AND DATA

24.5%

**#4**

MIN. ESTIMATED  
REDUCTION IN  
ENERGY  
CONSUMPTION  
(ON AVERAGE)

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# CONNECT WITH PEAKapp



@PEAKAPP\_EU



@PEAKAPP\_EU



PEAKAPP EU

[www.peakapp.eu](http://www.peakapp.eu)



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# THANK YOU FOR YOUR ATTENTION!

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