

E3 - C2013/2-4

(E-health services Everywhere and for Everybody)

CELTIC-NEXT Proposer Day @



Centro para el Desarrollo Tecnológico



26th September 2018 - Madrid (Spain)

Óscar Chabrera (ViLynx)







+3K Million +60K +10KUp to 490% 3X

Video Previews served

Articles processed /day

Videos processed /day

Uplift in CTR*

Increase in page views*

*measured through A/B test run by our customers

E3 General Facts & Main Focus



CELTIC Label: 27th November 2013 Start date: 5th December 2014 End date: /30th June 2018 (M42)

Main Focus

Schedule

Design & implement an E2E platform able to allow everybody access to e-health services everywhere

Exploits and extends the results from the HIPERMED CELTICplus project

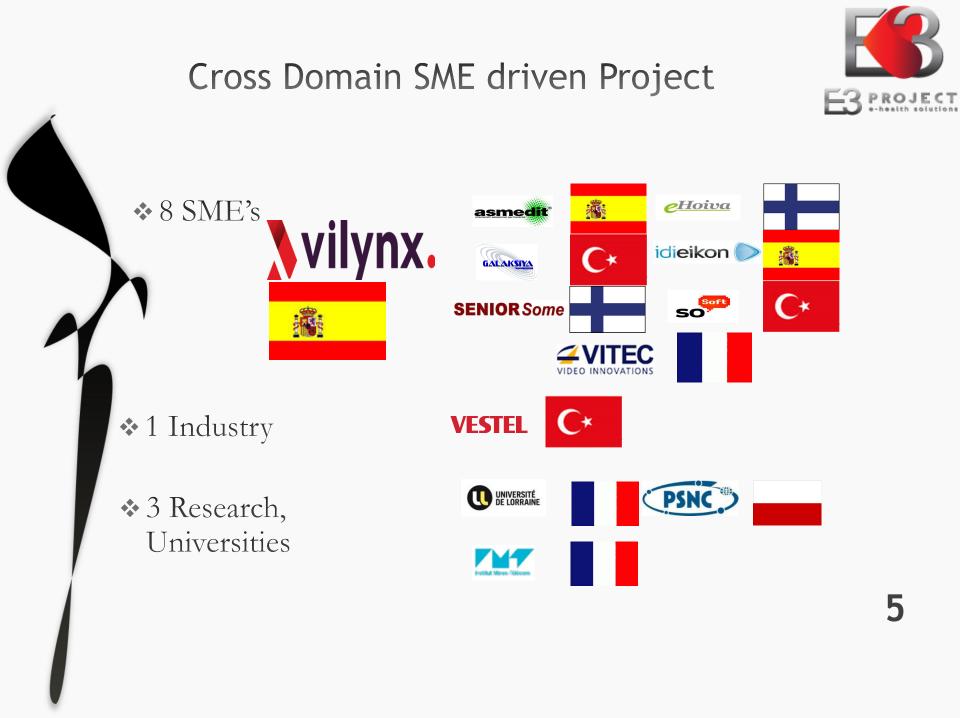
15 healthcare scenarios (professional-to-professional, professional-to-patient and patient-to-patient/relative) **validated by doctors testing the platform results**

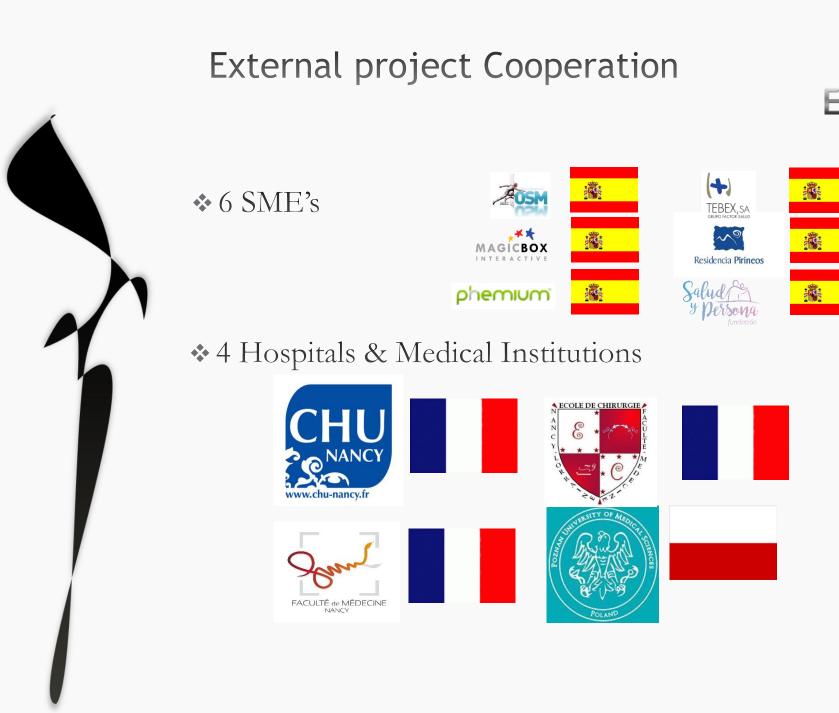
International Cooperation is a MUST





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PROJECT

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Solved Problems



- Funding Problems:
 - Partners NOT funded:
 - Sweden Withdrawasl
 - Poland Self-Funded
 - Finland partly Self-Funded
 - •6 months Project Extension:
 - Partners finishing 6 months earlier
 - Partners not being able to cover 6 months extension costs
- Regulatory Changes
 - GDPR Adaptation

Main Innovations



- HEVC Proposal of medical test sequences for the MPEG video test set at the 119th MPEG meeting at Torino (Italy) + JCT-VC and JVET meetings
- WebRTC enabled HD video hardware encoder allowing to have adaptative bit rate solutions allowing the EVERYWHERE objective
- A new data hiding algorithm for smart videos (patent registration & startup creation to exploit in process)
- Intensive use of AI /ML solutions:
 - Speech to Text AI automatic based solution
 - ML technology across all platforms (iOS, Android, TV, STB, Web) allowing EVERYWHERE objective
 - Image, Voice and Pattern Recognition
 - Robust NLP Processing of Human Response for "fuzzy logic quantification" of an "emergency medical assessment"
- Validation by subjective tests with doctors of the superiority of HEVC compared to H264 encoding standard for medical video compression

Main Achivements





"Bronze eVIA Innova Award in the Spanish Technological eHealth Plartform eVIA"

Cross Domain project with 3 Medical Congress:

- Nancy (France) on 29th Sept to 1st Oct 2015 First 3D Telesurgery transmission of both ENT & Heart Surgery, & Espoo (France) on the 14th June First & Nancy Final Review
- First 3D Tele surgery transmission of both ENT & Heart Surgery, 29th September 2015
- First Simultaneous 2D &3D Robotic & Endoscopic Surgeries in Nancy-Finland, Espoo-Finland & Poznan-Poland. E3 in EUREKA Week Helsinki, 2016
- 2D endoscopic surgery and 2D robotic simulation in Nancy, 27th of June 2018
- First course on brain anatomy coupled to an awake live surgery (May 26, 2017) in Nancy France
- Follow up CELTICplus project FRONT-VL to study Pattern Recognition
- ✤ GDPR Compliance D4.10
- Compromised €2.6M ARR in 3yr (6.5M in the next 3 yrs). ROI 1.3X.
 - MEDVC established as transmission platform for European Surgery Associations and deployed in 10 Clinics for ENT and 5 for UROLOGY



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- ViLynx English Speech to Text Technology adapted to Media and Deployed. Extended to Spanish. Moving to Portuguese.
- CALBOQUER is studying usage for the Deaf and Hard of Hearing as life expectancy is continuously growing and Elderly are demanding this service & CALBOQUER must give a universal service.
- VESTEL is studying using ViLynx Speech to Text technology
- ViLynx video summarizing and indexing solution
 - SENIORSOME, IDI-EIKON & VESTEL are studying using ViLynx summarizing solution
- ViLynx ML Technology adapted to iOS, Android, Roku TV.
 Adapted to Media and deployed.



 VESTEL is studying using ViLynx technology on their STB and HDTV



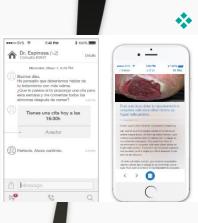




Tebex (Calboquer external partner) is analyzing the possibility to start using the technology developed in the scenario 3 of WP3 HealthCare Professionals organizing daily work and registering daily operations via mobile device, to optimize their daily operations related to its absence from work inspection service.







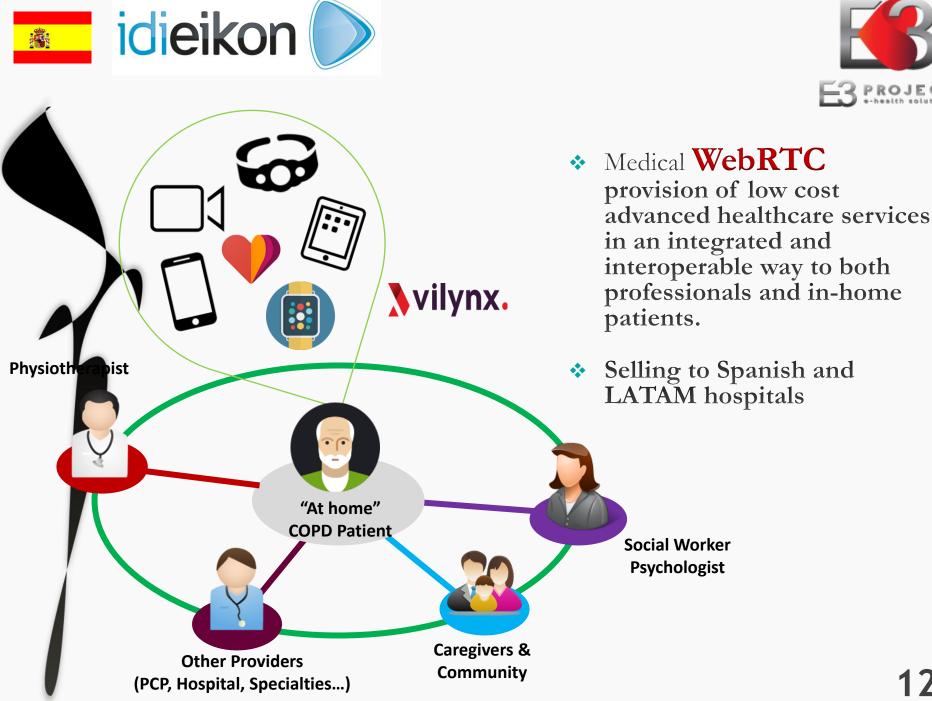
Calboquer is also analyzing the exploitation of the wounds and sores professional to professional solution as this provides a extended added value for elderly facilities and small care centers that can have a 24x7 remote specialist service.

phemium

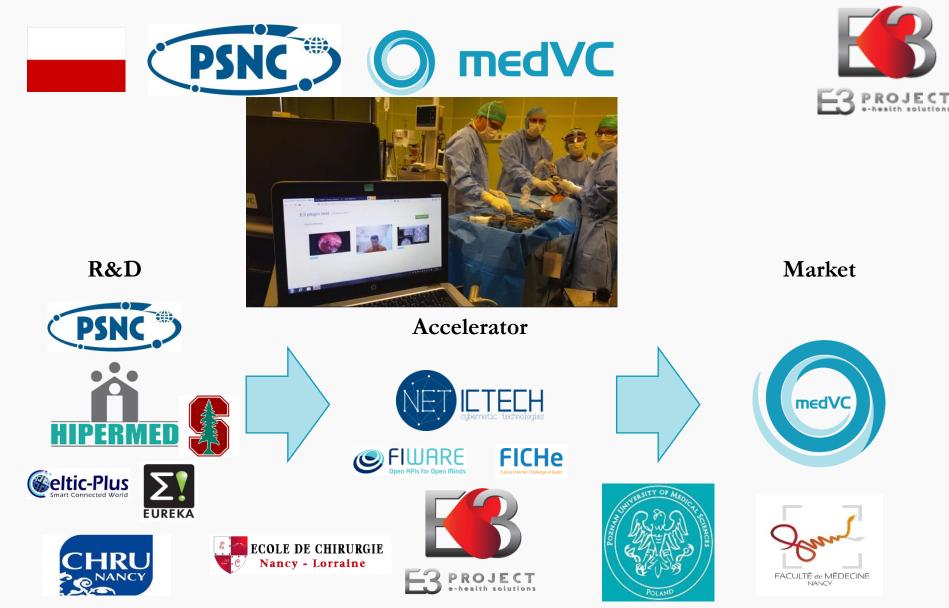












MEDVC established as transmission platform for European Surgery Associations and deployed in 10 Clinics for ENT and 5 for UROLOGY



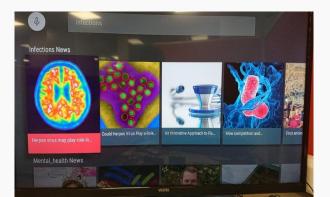


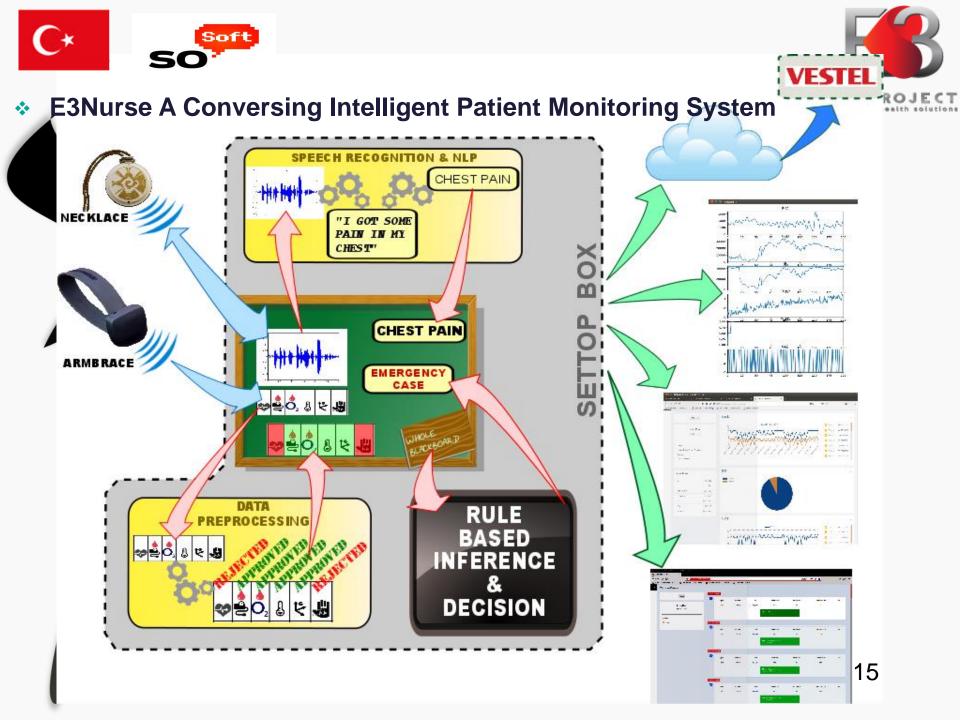




- VESTEL strategy to foster Android Products (STB, HDTV, Mobile Phones) sales offers E3 applications by default as they are easy to use (Everybody) and accessible Everywhere.
- VESTEL is under discussion with Turkish Health Service Providers to provide extended versions of theses services like professional support and emergency services.











Exploitation plans targeting medical sector are:

COTS: Hardware and Software Products













COTS: Integration Products with SDK













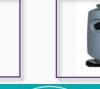
Custom Design Products

























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UNIVERSITÉ DE LORRAINE





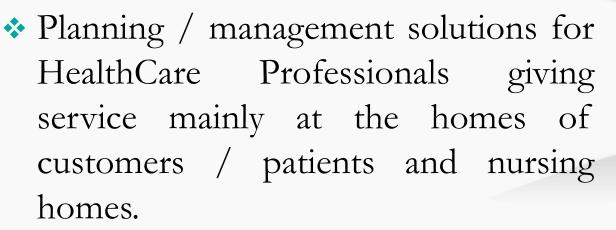












Improving customers' efficiency by tens of percent's, data accuracy, shortening invoicing processes etc.
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1) Keränen Mat



SENIOR Some

- SENEScreen NO touch UI allow elderly to voice manage the healthcare platform
- The ecosystem allows seniors, healthcare industry and communities to work more efficient.
- SeniorSome service with myData-model and adaptive video/voice transmission
- Allows to build up best possible contents.
- Point to point videoconference
- On distribution in Europe, US and Oceania



