

Dissemination Page 1 of 36

Table of Contents

0	PUBLICATIONS ULIMPIA		2
	0.1	Year 1	2
	0.2	Year 2	11
	0.3	Year 3	
1	PRESS RELEASES ULIMPIA		
	1.1	Year 1	20
	1.2	Year 2	22
	1.3	Year 3	
2	WORKSHOPS ULIMPIA		
	2.1	Year 1	
	2.2	Year 2	
	2.3	Year 3	



0 Publications ULIMPIA

0.1 Year 1

- Ronald Dekker, "Health.E, Accelerating innovation in Medical Devices. Enabling "Moore for Medical"", kick-off of the Strategic Governing Group "Digital Health & Patient-Centric Evidence Generation" from IMI. Location headquarters Sanofi Paris, 20th of April 2018 [Doc_0]
- 2. John Schmitz (Dean of EWI faculty Delft University) and Mart Graef, "Micro- and Nano-Electronics in The Netherlands," presentation at the 2018 Sino-Dutch International High Level Talent Forum and Summer School on Semiconductor Technologies, Tsinghua University, Beijing, China, July 9, 2018 [Doc_7]
- 3. Ronald Dekker, poster presentation of the Health.E lighthouse referencing the POSITION project as cornerstone as well as the ULIMPIA project. at the 2018 ECSEL Symposium 19-21 June 2018 Brussels. [Doc_12]
- 4. The Autumn 2018 number of the EU Research magazine featured an extensive article on the Health.E lighthouse. In the article the InForMed, POSITION as well as the ULIMPIA projects were referenced. The article is available on-line from the <u>EU Research Magazine website</u> [Doc_24]. https://issuu.com/eu_research/docs/informed_h_res_eur17
- 5. The ULIMPIA project was part of a presentation to tell the internal Philips organization about the content and organization of European projects. The presentation was held at the High Tech Campus the 4th of October 2014 and webcasted to Philips worldwide. After the presentation there was a poster session in which PPP projects were presented. [Doc_25]
- The ULIMPIA project was part of a presentation on Innovation in Medical Devices in an invited presentation during the <u>Microelectronic Circuit Centre Ireland</u> <u>annular 2018 Forum</u> in Cork the 11th of October 2018 https://www.mcci.ie/mcciannual-forum-2018/ [Doc_31]
- Chris van Heesch (Philips), invited presentation at the <u>IEEE International</u> <u>Ultrasonics Symposium (IUS) 2018</u>, " Collapse -mode CMUT: design and characterization" 22-25 October 2018, Kobe Japan. The paper received the conference highlight award. <u>http://sites.ieee.org/ius-2018/</u> [Doc_34]
- Every year PhDs and PostDocs at Philips Research organize an event during which they tell the Philips community about their research projects. On the 1st of November 2018 this also included contributions from PhD students working in the European projects ULIMPIA and POSITION [Doc_36].
- 9. During the Medical MEMS and Sensors conference 7-8 Nov 2018 at Santa Clara California, Rob van Schaijk from Philips Innovation services gave a presentation entitled "CMUT and PMUT: New Technology Platform for Medical Ultrasound," During the stand Philips was also present with a company booth http://www.medicalmemsconference.com/ [Doc_39]
- 10. The 13th of November 2018 Ronald Dekker presented an Invited presentation entitled "Moore for Medical," at the Semicon Europe conference 2018 in Munich. The presentation disseminates the goals of the lighthouse and introduces projects like POSTION, ULIMPIA and ORCHID. http://www.semiconeuropa.org/flex-europe-be-flexible [Doc_40]



- 11. Partner Novioscan gave a presentation and presented a poster at the ICCS 2018 conference in Rome (International Children's Continence Society) https://www.iccs2018.info/ [Doc_42]
- 12. Christof Landesberger from Fraunhofer EMFT gave a presentation "Towards R2R manufacture of Flexible Hybrid Electronics Technology Roadmap at Fraunhofer EMFT," during the <u>"2018 Flex Europe Be Flexible"</u> conference parallel to the Semicon Europe the 13th of November 2018. http://www.semiconeuropa.org/flex-europe-be-flexible [Doc_40]
- Carsten Linti from Deutsche Institute fur Textil- und Faserforschung (DITF) gave a presentation "Laser-Direct-Structuring of Flexible Textile Circuits," during the <u>"2018 Flex Europe - Be Flexible"</u> conference parallel to the Semicon Europe the 13th of November 2018. <u>http://www.semiconeuropa.org/flex-europe-be-flexible</u> [Doc_40]
- 14. The ULIMPIA project was represented with a 3 poster booth including demomaterial at the 2018 EFECS. 20-23 November, Lisbon 2018. [Doc_43]
- 15. As part of the Health.E lighthouse, the ULIMPIA project was presented during the high level conference organized by DG-RTD "The impact of EU research and innovation on your daily life" the 27th of November 2018. Location was the meeting space directly in front of the hemicycle European parliament in Brussels. The stand was very well received and visited by EU parliament president Tajani, DG-RTD (innovation) commissioner Moedas and MP Lambert van Nistelrooij. [Doc_45]
- 16. The demonstration in the EU parliament of the InForMed project at the EU parliament was highlighted in an article in the online newsletter Philips Global News. The article placed the InForMed project in the context of both the POSITION and the ULIMPIA (PENTA) as well as the Health.E lighthouse [Doc_46]
- 17. The magazine SciTech Europe Quarterly published an interview with Ronald Dekker about the recently established Health.E lighthouse. The interview also references the ULIMPIA project. SciTech Europe Quarterly, December 2018, issue 29 [Doc_47]
- 18. The Artemis Magazine featured an extensive interview on the Health.E lighthouse entitled "Health.E lighthouse; 'Moore for Medical': accelerating innovation in medical devices" by Chris Horgan, Artemis Magazine No. 25, December 2019 [Doc_66].
- 19. Reinout Woltjer from partner Novioscan gave a presentation entitled "from clinical need to medical product" at the Wearable Technologies EUROPE 2019 conference, 3-6 February in Munich. <u>https://www.wearable-technologies.eu/</u>[Doc_53]
- 20. Ronald Dekker, Philips Research, "Emerging technologies in healthcare, the opportunities and challenges," presentation during the Artemis Technology Conference 2019, Amsterdam, The Netherlands [Doc_62]
- 21. P.G. van Leuteren from Noviiscan presented a presentation entitled "Sens-U: continuous home monitoring of nocturnal bladder filling in children with enuresis

 a feasibility study-" at the 30th ESPU (European Society for Pediatric Urology" in Lyon France the 29th of April 2019 https://congress2019.espu.org [Doc 65]
- 22.





The Autumn 2018 number of the EU Research magazine featured an extensive article on the Health.E lighthouse. In the article the InForMed, POSITION as well as the ULIMPIA projects were referenced. The article is available on-line from the EU Research Magazine website [Doc_24].



The ULIMPIA project was part of a presentation to tell the internal Philips organization about the content and organization of European projects. The presentation was held at the High Tech Campus the 4th of October 2014 and webcasted to Philips worldwide. After the presentation there was a poster session in which PPP projects were presented. [Doc_25]





Chris van Heesch gives an invited presentation at teh IEEE International UltraSonic Symposium 2018 in Kobe Japan. The presentation was designated a "Conference highlight"



PhDs and PostDoc students tell the Philips community about their research project in European projects like POSITION and ULIMPIA, 1st Nov 2018.



Impressions of the Philips Booth and presentation during the "Medical MEMS and Sensors" conference in Santa Clare California [Doc_39]



Dissemination Page 6 of 36



р

Imression of the presentation and poster of partner Novioscan at the ICCS 2018 conference in Rome (International Children's Continence Society) https://www.iccs2018.info/ [Doc_42]



Christof Landesberger (left) Ronald Dekker (right) ad Carsten Linti (not shown) gave presentations during the "2018 Flex Europe - Be Flexible" conference 13-14th Nov 2018 in combination with the Semicon in Munich [Doc_40]





The ULIMPIA poster booth at the 2018 EFECS, Lisbon, 20-22 Nov 2018 [Doc_43]



As part of the Health.E lighthouse, the ULIMPIA project was presented during the high level conference organized by DG-RTD "The impact of EU research and innovation on



your daily life" the 27th of November 2018. Location was the meeting space directly in front of the hemicycle European parliament in Brussels. The stand was very well received and visited by EU parliament president Tajani, DG-RTD (innovation) commissioner Moedas and MP Lambert van Nistelrooij. .[Doc_45]

InForMed project highlighted during H2020 event at the European parliament

areach Dierro

The ECSEL Joint Undertaking project InForMed was selected for a dimonstration during the high-level conference "ED research and innovation in our daily life," the 27th of November. The location was the European Parliament building in Bruesels directly noxt to the entrance of the Parliament hemicycle.

The demoinduded a novel electrophytology catheter with ublacound abrahon monitoring contineed with optical shape sensing (FORS). The demonstration was violated by parliament charman Tajars. EU Commissioner Moedas. Onector general Jean-Etic Paquet and many sconauth and NPh.



The infrarMed project, which ended fait September, comparison of the realization of a manufacturing infractivicities for immovative incrollational methods devices. The abuation calculate way solution of the 6 devices/strates on the instact that automovary generates the Organi-on-Chip startup BUOND, which was also prepariting in Brussels. The project vide immarks and sourchmarks by OND, which was also prepariting in Brussels. The project vide immarks and sourchmarks by OND, which was also prepariting to 10 counties and half a total brussels. The Mission

Photos Research and Philips Immovation Services have trivediad deeply in the development of Sectorologies for MEMS utbacenet benchburne and limit catheters. This work is supported by a series of large European projects which embed this service a European network of technology supports, academic and end-uses.



make a substant provide state in the state of the fit become a periodicity.

After InflorMed ensied, the future-up process UL/MPA (PENTA) and POSITION (BCSEL) concentrate on surging the technologies to righ TRL solve cent featurescape participants for ultrational, mark catheters and body patches. The recently established Health E Lighthouse which leads to these operations projects, promotes open technology patchess as a means to accelerate innovations in motical devices. More to Medical

For more information, please contact, Ronaut Deliter

InForMal Interpretand ansatz and POSTARK Interpretant-Zawe ULMMA Interpretant-Zawe ULMMA Interpretant Social And American Big Oko Interpretant Social And American International Big Oko Interpretant And Interpretant International Particle Team Carlo Reactingue (FDPS) Interpretant Jam form-International

The demonstration in the EU parliament of the InForMed project at the EU parliament was highlighted in an article in the online newsletter Philips Global News. The article placed the InForMed project in the context of both the POSITION and the ULIMPIA (PENTA) as well as the Health.E lighthouse [Doc_46]



Dissemination Page 9 of 36



The Artemis Magazine featured an extensive interview on the Health.E lighthouse entitled "Health.E lighthouse; 'Moore for Medical': accelerating innovation in medical devices" by Chris Horgan, Artemis Magazine No. 25, December 2019 [Doc_66]

PROFILE

Commercialising health innovation

TU Dell's Professor Rondid Dekker discusses the potential benefits of open fact-hology platforms as prevented by the Health E Upthouse, at well as other ences such as the regulation of medical devices and the future of the electronic medical device for the future of the electronic medical device

The Rocks's Advances to an Instantian the TOTE and Instantian branchistics and instantian branchistics of the superscience and and paper to brance additional and the production in temporar additional and the instantian additional additional additional additional temporarised and patients of the stantian additional a

A service of Polys Research & service of the servic

What may the patiential with patientian of speep horizontages of patientians, speechesily for August and the speep horizontage to a science for the speep and patientians of the speep horizontage to a science for the speep horizontage speep horizontage patientians of the speep horizontage

14 1 Logal Marcines navelsky tempelation jerzy zakowi od kontek sen undersky aktivitet sen og av beide spelationen for extra et al. Jugitet sen et konstage for extra et al. Jugitet sen et konstage som av beide sen en og av beide spelationen mange for extra et al. Jugitet sen et konstage for extra et al. Jugitet sen et konstage mange for extra et al. Jugitet sen et al. Jugitet mange for extra et al. Jugitet sen et al. Jugitet mange for extra et al. Jugitet sen et al. Jugitet mange for extra et al. Jugitet sen et al. Jugitet mange for extra et al. Jugitet sen et al. Jugitet sen et anderskie for extra et al. Jugitet sen et al. Jugitet sen et anderskie for extra et al. Jugitet sen et al. Jugitet sen et anderskie for extra et al. Jugitet sen et al. Jugitet sen et anderskie for extra et al. Jugitet sen et al. Jugitet sen et anderskie for extra et al. Jugitet sen et al. Jugitet sen et anderskie for extra et al. Jugitet sen et anderskie for extra et al. Jugitet sen et al. Jugitet sen et anderskie for extra et al. Jugitet sen et

And/Corpers functions (International International In



 α count A pointer sell's trai que a la construit de la co

m constantion was an end of the second secon

weight of the second second

 ending your of our disposition that it have an endine up to an endine out of endiness to an endiness of the endiness devices to a Cap state for the size endiness or Cap state for size

> No others are paper of the build have to be 12.2 and for building paper M22133. See, upon tables papers and the ord proved or band address of spacing any large products. Daths from designing a separation building for each specdesigning that are been for states address to be any data and the ord for states address to be applied to be a separation. Although the papers to be applied address and papers to be applied to be a separation address a bang angle. Eng is first any on how and any states address address address a bang angle. Eng is first any on how any data or bang reduced with address address

Na spec methodog patrieros, seggental la contrasa, the propet aires in terms the methodoges for here and sector results of the contrast. The pathenes will result pathets to interface of these patients del suggest as offer rates into of results of explorers patients.

Pochase Result Seiter
 Pochase Result Seiter
 Today of Eacher Damming
 Today of Eacher Damming
 Today
 Tod

The magazine SciTech Europe Quarterly published an interview with Ronald Dekker about the recently established Health.E lighthouse. The article also references the ULIMPIA project. SciTech Europe Quarterly, December 2018, issue 29 [Doc_47]



Dissemination Page 10 of 36



Reinout Woltjer from partner Novioscan gave a presentation entitled "from clinical need to medical product" at the <u>Wearable Technologies EUROPE 2019 conference</u>, 3-6 February in Munich [Doc_53]



"Emerging technologies in healthcare, the opportunities and challenges," presentation during the Artemis Technology Conference 2019,16-17 April 2019 Amsterdam, The Netherlands [Doc_62]



P.G. van Leuteren from Noviiscan presented a presentation entitled "Sens-U: continuous home monitoring of nocturnal bladder filling in children with enuresis – a feasibility study-" at the 30th ESPU in Lyon France the 29th of April 2019 [Doc_65]



0.2 Year 2

- 1. The Health.E lighthouse was presented during the ECSEL symposium in Bucharest 17/18 June 2019. The poster presentation was part of four guided tours. In the presentation the POSITION project (separate poster) and the ULIMPIA as well as the ORCHID projects were highlighted. Romanian media recorded the poster presentation [Doc_70]
- Marcin Meyer (KOB) "Smart medical textiles for wireless health monitoring," AUTEX 2019, 19th world Textile Conference, Textiles at the Cross roads on 13th June 2019 in Ghent. [Doc_71]
- "Creating the future of healthtech," presentation by Willem van den Brink (Philips Innovation Services) at the <u>MicroTech Suedwest</u> in Freiburg, 19th July 2019. [Doc_75]
- 4. Mikko Matvejeff et al. (Picosun), "Hermetic Encapsulation with ALD for Improved Performance and Lifetime of Medical Devices," Presentation at the Semicon2019, SEMICON West 2019, July 9-11, San Francisco, CA. <u>https://www.semiconwest.org/</u> [Doc_78]
- 5. Juhana Kostamo et al. (Picosun), "Multi-layer stacked ALD coating for hermetic encapsulation of implantable biomedical microdevices," Presentation at the ALD2019, 21-24 July, 2019, Bellevue, Washington, USA. https://ald2019.avs.org/ [Doc_79]
- C. van Heesch et al. "CMUT for high volume low cost medical applications," 2019 ICU Bruges, 2019 International Congress on Ultrasonics, 3-6 September 2019 Bruges Belgium [Doc_84]
- Shin Kawasaki et al. Ultrasound power transfer for implantable bioelectronics using trapped charge CMUTs," 2019 ICU Bruges, 2019 International Congress on Ultrasonics, 3-6 September 2019 Bruges Belgium [Doc_86]
- 8. Pieter Dik from NovioScan gave a presentation at the ICCS 2019 <u>https://www.iccs2019.com/</u> on the work they are doing in ULIMPIA [Doc_90].
- 9. Rob van Schaijk (Philips Innovation Services) gave a presentation entitled "CMUT: a versatile and low cost ultrasonic platform" during the MEMS & Imaging summit Grenoble 24-26 September 2019 [Doc_91]
- M. Tan, (TUDelft) E. Kang, J.-S. An, Z. Y. Chang, P. Vince, N. Sénégond, and M. A. P. Pertijs, "An integrated programmable high-voltage bipolar pulser with embedded transmit/receive switch for miniature ultrasound probes," in Proc. European Solid-State Circuits Conference (ESSCIRC), Krakow, Poland, Oct. 2019, pp. 325-328. [Doc_92]
- 11. In a presentation by Brown University School of Engineering, Providence RI, USA at the V2019 VAKUUM & PLASMA conference from 08 10. October 2019 in Dresden, Germany, results were shown that Picosun achieved in the ULIMPIA project. The title of the presentation was "Multi-layer stacked ALD coating for hermetic encapsulation of implantable biomedical micro devices," presented by Christoph Hossbach (Picosun). <u>https://www.efds.org/event/v2019-vakuum-plasma/</u> [Doc_95].
- 12. The Health.E lighthouse including results from ULIMPIA was presented during the two day workshop on Bio Electronics and Wearable Systems organized by the MNBS (DG Connect) the 22nd and 23rd of October 2019 in Brussels https://ec.europa.eu/digital-single-market/en/news/workshop-smartbioelectronic-and-wearable-systems [Doc_97]



- 13. Hans Hofstraat, vice president and research program manager Royal Philips gave a presentation "Digital healthcare solutions from big data to clinical impact," which includes results from the ULIMPIA project at the Medtech & Pharma platform, 24th October 2019. [Doc_99]
- 14. Boris Bauer, Götz T. Gresser, "Temperaturregulatorische Individualisierung von Burn Garments," 38. Jahrestagung der Deutschsprachigen Arbeitsgemeinschaft für Verbrennungsbehandlung, 15.-18. Januar 2020, Zell am See. [Doc_108]
- 15. W.M.J. Kwinten et al. "SENS-U: continuous home monitoring of natural nocturnal bladder filling in children with nocturnal enuresis, a feasibility study," In *Journal of Pediatric Urology Company*, 2020 pp. 1477-5131, <u>https://doi.org/10.1016/j.jpurol.2020.01.012</u>. [Doc_114]



The Health.E lighthouse was presented during the ECSEL symposium in Bucharest 17/18 June 2019. The poster presentation was part of four guided tours. In the presentation the POSITION project (separate poster) and the ULIMPIA as well as the ORCHID projects were highlighted.





Marcin Meyer (KOB) presenting at the 19th world Textile Conference (AUTEX19) June 2019 Ghent, and Facebook item related to the conference. [Doc_71]



"Creating the future of healthtech," presentation by Willem van den Brink (Philips Innovation Services) at the MicroTech Suedwest in Freiburg, 19th July 2019. From left to right: Dr Alfred Stett, Retina Implant AG, Willem van den Brink, Philips Innovation Services, Prof Thomas Stieglitz, University of Freiburg, Roland Doerr, MictroTec Suedwest, and Reinhard Pusch, RoodMicrotec GmbH.





C. van Heesch et al. (Philips) "CMUT for high volume low cost medical applications," 2019 ICU Bruges, 2019 International Congress on Ultrasonics, 3-6 September 2019 Bruges Belgium [Doc_84]



Shin Kawasaki et al. Ultrasound power transfer for implantable bioelectronics using trapped charge CMUTs," 2019 ICU Bruges, 2019 International Congress on Ultrasonics, 3-6 September 2019 Bruges Belgium [Doc_86]





Rob van Schaijk (Philips Innovation Services) gave a presentation entitled "CMUT: a versatile and low cost ultrasonic platform" during the MEMS & Imaging summit Grenoble 24-26 September 2019 [Doc_91]





PhD Mingliang Tan (TUDelft) presenting at the ESSCIRC in Krakow Poland October 2019 [Doc_92]





The Health.E lighthouse including results from ULIMPIA was presented during the twoday workshop on Bio Electronics and Wearable Systems organized by the MNBS (DG Connect) the 22nd and 23rd of October 2019 in Brussels [Doc_97]



Hans Hofstraat, vice president and research program manager Royal Philips gave a presentation "Digital healthcare solutions – from big data to clinical impact," which includes results from the ULIMPIA project at the Medtech & Pharma platform, 24th October 2019. [Doc_99]





Boris Bauer, Götz T. Gresser, "Temperaturregulatorische Individualisierung von Burn Garments," 38. Jahrestagung der Deutschsprachigen Arbeitsgemeinschaft für Verbrennungsbehandlung, 15.-18. Januar 2020, Zell am See. [Doc_108]

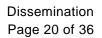
0.3 Year 3

- On the 23rd of December 2019 PhD student Shinnosuke Kawasaki from TUDelft gave a presentation about his work in Holland and on ULIMPIA at the Tokyo University. The presentation is available on <u>YouTube</u>. <u>https://www.youtube.com/watch?time_continue=5&v=1guK1nNgJk&feature=emb_logo</u>
- Riina Ritasalo, Oili Ylivaara, Teuvo Sillanpää, Paula Holmlund, Anu Kärkkäinen Tom Blomberg (Picosun and VTT), "In-vitro Screening of Materials and Laminates by Atomic Layer Deposition for Medical Device Coatings," ALD2020 Conference, Virtual event, 30 June - 1 July, 2020 Presented by Tom Blomberg (Picosun) <u>https://ald2020.avs.org/</u> [Doc_123].
- Riina Ritasalo et al. (Picosun & VTT), "In-vitro Screening of Materials and Laminates by Atomic Layer Deposition for Medical Device Coatings," Semicon West 2020 Conference, Virtual event, 20 - 23 July, 2020 Presented by Mikko Matvejeff (Picosun) <u>https://www.semiconwest.org/node/1</u> [Doc_128]
- 4. Health.E lighthouse presentation for the 21th International Conference on Industrial Technology Innovation (ICITI, 2020), Digital Innovation for smart health and wellbeing. In the context of open technology platforms, the presentation references the ULIMPIA project. Date: October 15 (Thursday) 2020 Venue: Taiwan Institute of Economic Research (on-line) [Doc_139]
- 5. Health.E lighthouse presentation for the MedTech&Pharma Platform Conference. In the context of open technology platforms, the presentation references the ULIMPIA project. 22-23 October (on-line) https://www.medtech-pharma.com/program [Doc_140]
- 6.





On the 23rd of December 2019 PhD student Shinnosuke Kawasaki from TUDelft gave a presentation about his work in Holland and on ULIMPIA at the Tokyo University. The presentation is available on <u>YouTube</u>





1 Press Releases ULIMPIA

1.1 Year 1

- 1. In May 2018 the Health.E lighthouse was established. It references both the POSITION project (cornerstone) as well as the ULIMPIA project. https://www.ecsel.eu/healthe
- 2. 31st of July 2018, the ULIMPIA website is on-line: <u>www.ulimpia-project.eu</u>
- 4th of August 2018, Technical University of Delft published an on-line reference to the ULIMPIA project

http://ei.ewi.tudelft.nl/Research/project.php?id=123&ti=41

- Press Release by Penta office announcing the ULIMPIA project "ULIMPIA enables smart body-patches for ultra-sound monitoring at home" 8th of October 2018 [Doc_27]
- 5. In October 2018 partner Novioscan introduced their first SENS-U product in Germany. This coincided with a trade mission to Reinland Pfalz en Saarland that was accompanied by King Willem Alexander and Queen Maxima, and ministers Siegried Kaag en Hugo de Jong [Doc-48].



TOWARDS THE NEXT GENERATION SMART BODY PATCHES

It is the ambitues of the ULDIPIA project to bring together recent invariations in MEMS ultrasound and wearable device technology to create an open technology platform for the next generation smart body patches that summat only some the surface of the skin, but that can also look deep inside the body. It will enable E-health solutions that will make patients more

Screen shot of the ULIMPIA website www.ulimpia-project.eu





Presentation of the ULIMPIA project on the website of the Technical University of Delft.



Press release on ULIMPIA by PENTA office the 8th of October 2018 [Doc_27]





In October 2018 partner Novioscan introduced their first SENS-U product in Germany by signing a cooperation agreement with UKS (Universitätsklinikum Saarland) in Homburg. The signing was witnessed by King Willem Alexander and Queen Maxima, and ministers Siegried Kaag en Hugo de Jong [Doc-48].

1.2 Year 2

- KOB published a facebook item related to the presentation of ULIMPIA by Marcin Meyer "Smart medical textiles for wireless health monitoring," at the AUTEX 2019, 19th world Textile Conference, Textiles at the Cross roads on 13th June 2019 in Ghent. [Doc_71]
- 2. KOB has a booth at the 2019 MEDICA 18-21 November. Concurrent with the MEDICA KOB will place a one-page advertisement in the wearable technology magazine that will be distributed there. Additionally, there will be a poster on the back wall of the booth [Doc_88] [Doc_106]
- 3. Partner Novioscan was proud to announce that they have been acquired by the Swedish Health and Hygiene company Essity for € 6.5M on the 1st April 2020
- 4. Philips innovation Services dedicated a special LinkedIn post on the ULIMPIA project including the promotional video made by PENTA office: https://www.linkedin.com/feed/update/urn:li:activity:6651455336551194624/
- 5. The promotional ULMPIA video was posted on the PENTA website: <u>http://www.penta-eureka.eu/events/videos.php</u>, 9th of October 2020
- 6. The ULIMPIA project is an important project of the Health.E lighthouse. Continuous monitoring devices such as being developed in the ULIMPIA project as well as the ULIMPIA project itself are referenced on the Health.E website that went live 1st May 2020 <u>www.health-lighthouse.eu</u>.





KOB has a booth at the 2019 MEDICA 18-21 November. Concurrent with the MEDICA KOB will place a one-page advertisement (left) in the wearable technology magazine that will be distributed there. Additionally, there will be a poster on the back wall of the booth (right) [Doc_88]







KOB booth and presentation of Marcin Meijer at the Medica 2019[Doc_106]



Press release

Stockholm, April 1, 2020

Essity acquires smart ultrasound technology for incontinence care

Hygiene and health company Essity is strengthening its offering in incontinence products through the acquisition of the Dutch company Novioscan. The company develops a wearable ultrasound technology that monitors the bladder and enables continence control. The purchase price is approximately SEK 70m (EUR 6.5m) on a debt-free basis.

The SENS-U innovation is a wearable ultrasound sensor that measures the level in the bladder. It sends a discrete notification that allows the user to empty their bladder in time. A version of SENS-U for children is already available in the market and an adult version is under development.

"The SENS-U technology is an innovative solution that will strengthen Essity's offering in incontinence care and give consumers an opportunity to live a healthier and more active life," says Ulrika Kolsrud, President Health and Medical Solutions of Essity.

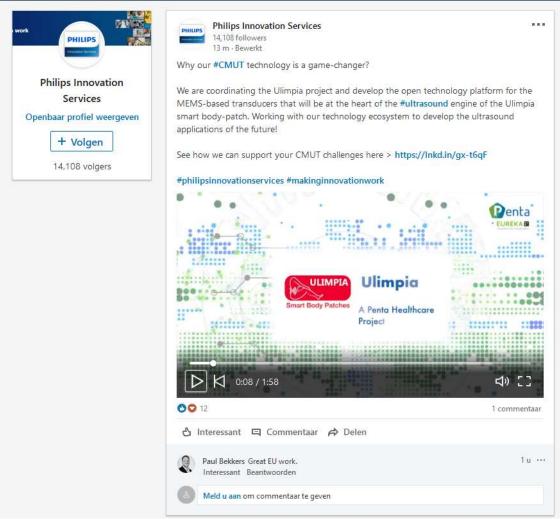
Novioscan was founded in 2014 in Nijmegen, the Netherlands, and has ten employees, all of whom will remain in the company.

Essity is the leading global player in incontinence products with the TENA brand. Incontinence affects 4-8% of the world's adult population. Essity works to break barriers and the stigma associated with incontinence to improve well-being and help people live life to the fullest.

Partner Novioscan was proud to announce that they have been acquired by the Swedish Health and Hygiene company Essity for € 6.5M on the 1st April 2020



Linked in



Philips innovation Services dedicated a special LinkedIn post on the ULIMPIA project including the promotional video made by PENTA office: https://www.linkedin.com/feed/update/urn:li:activity:6651455336551194624/





HEALTH.E LIGHTHOUSE

Enabling "Moore for Medical"

Health 2 will accelerate the investee in medical devices and systems by downaming the development of open terminology plantame and mandershi. Thereby meaning away from the inhurble and costly point address that presently downate electronic checked downaming terming.

Operite/two gap platforms, supported by maderaps, will generate the production volumes needed for sustained technology development, resulting in new and better solutions in the healthcare domain. H is the mission of Health E in: • Translate the needs of WedTech and Pharma into ECS opportunities

- Literatly gaps in the University Research Agenda
 Stimulate open technology partitions and standards
 Connect to European installates and relevant
- Connect to European initiatives and relevant communities

READ MORE >>>>

Screenshot of the Health.E website that extensively references the ULIMPIA project www.health-lighthouse.eu

1.3 Year 3

- 1. Picosun referred to both the ECSEL POSITION as well as the PENTA ULIMPIA in their Picosun's communications press release 29.6.2020 in an article entitled "Picosun's medical ALD solutions ensure excellent hermetic encapsulation," The article was shared on the web, linkedin, twitter etc. [Doc_124]. https://www.picosun.com/press/picosuns-medical-ald-solutions-ensure-excellent-hermetic-encapsulation/
- 2.





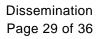
Picosun referred to both the ECSEL POSITION as well as the PENTA ULIMPIA in their Picosun's communications press release 29.6.2020 in an article entitled "Picosun's medical ALD solutions ensure excellent hermetic encapsulation," The article was shared on the web, linkedin, twitter etc. [Doc_124].



2 Workshops ULIMPIA

2.1 Year 1

- 1. On the 14th and 15th of March 2018 all partners from ULIMPIA gathered at the High Tech Campus in Eindhoven the Netherlands for the official ULIMPIA kick-off [Doc_14]
- 2. On the 26th of July there was an internal workshop at DITF in Denkendorf, Germany to bring the various departments of DITF up to speed with the ULIMPIA project. Present were the departments: Biomedicine, Knitting- and Fashioning technology, Electronic, Technology integration. [Doc_15]
- 3. On the 27 & 28th of August 2018 the German partners had a Kick-off meeting which took place at KOB at Wolfstein Germany [Doc_29]
- 4. On the 15th and 16th of October 2018 partners from ULIMPIA met at Fraunhofer EMFT for a two day workshop to update each other and align activities. [Doc_33]
- More than 30 people attended the consortium workshop in Delft on the 8th and 9th of Januari 2019. The meeting was organized by the Delft University of Technology [Doc_50]
- On the 23rd of January 2019 there was a workshop at partner DITF. KOB (Sina Borczyk, Kai Schrovenwever, Marcin Meyer) and DITF (Carsten Linti, Bastian Bäsch, Boris Bauer) were present. The Topic: Design of the temperaturemoisture-sensor of Demo 4 (Wound Monitoring)
- 7. On the 23rd of January 2019 partner GED has visited Philips to discuss the high voltage generation board and to get an introduction into the CMUT demo kit.
- 8. On the 7th of February partner VTT visited Philips Research for an extensive introduction into the CMUT demo board.
- On the 21st of March 2019 there was a workshop with partners TUDelft, Philips Research and Philips Innovation Services to come to exchange results from the PENTA ULIMPIA project and the ECSEL JU POSITION project. The result was a decision to work together on certain aspects of ultra-sound front-ends to avoid duplication [Doc_56]







Official group picture taken during the ULIMPIA Kick-off the 14th and 15th March at the High Tech Campus in Eindhoven [Doc_14]



Impressions from the ULIMPIA Kick-off meeting the 14th and 15th of March at the High Tech Campus in Eindhoven [Doc_14]





On the 26th of July there was an internal workshop at partner DITF to bring the various departments up to speed with the content of the ULIMPIA project [Doc_15]



On the 27 & 28th of August 2018 the German partners had a Kick-off meeting which took place at KOB at Wolfstein Germany [Doc_29]





On the 15th and 16th of October 2018 partners from ULIMPIA met at Fraunhofer EMFT for a twoday workshop to update each other and align activities. [Doc_33]



More than 30 people attended the consortium workshop in Delft on the 8th and 9th of Januari 2019. The meeting was organized by the Delft University of Technology [Doc_50]



On the 21st of March 2019 there was a workshop with partners TUDelft, Philips Research and Philips Innovation Services to come to exchange results from the PENTA ULIMPIA project and the ECSEL JU POSITION project.



2.2 Year 2

- 1. The 22nd of May 2019 there was a workshop at Philips Research to test different adhesive materials for ultra-sound transparency. [Doc_69].
- 2. More than 20 people attended the consortium workshop Helsinki on the 11^h and 12th of June 2019. The meeting was organized by VTT Finland [Doc_73]
- 3. On the 16th of July the HELoS project supporting the Health.E lighthouse kickedoff in Delft, the Netherlands. Present were partners: TUDelft, Philips, CEA LETI, Fraunhofer, IMEC, Future, Bayern and Siemens Both the POSITION, as well as the ULIMPIA project were presented as examples of projects working towards open technology platforms [Doc_76]
- 4. Rob van Schaijk (Philips) gave a presentation "CMUT: a low cost versatile ultrasonic platform," at a MEMS seminar organized by Salland Engineering, 5th of June 2019, Zwolle, the Netherlands [Doc_81]



The 22nd of May 2019 there was a workshop at Philips Research to test different adhesive materials for ultra-sound transparency. [Doc_69].





More than 20 people attended the consortium workshop Helsinki on the 11^h and 12th of June 2019. The meeting was organized by VTT Finland [Doc_73]



The 16th of July the HELoS project supporting the Health.E lighthouse kicked-off in Delft, the Netherlands [Doc_76]





Rob van Schaijk (Philips) gave a presentation "CMUT: a low cost versatile ultrasonic platform," at a MEMS seminar organized by Salland Engineering, 5th of June 2019, Zwolle, the Netherlands [Doc_81]

2.3 Year 3

- On the 26th of August 2020 there was the first (online) workshop of the Health.E lighthouse. During the workshop the whitepaper on emerging medical domains was discussed. During the workshop the ULIMPIA project made a project presentation. The workshop was attended by 45 representatives from industry (LE and SME), RTOs, academia, DG RTD and DG CONNECT, and industry associations. [Doc_131]
- On the 30th of September and 1st of October 2020 an additional on-line workshop was organized to discuss topics related to the flex design and the patch integration. Present where partners from DTIF, TNO, TUDelft, and Philips. [Doc_134]
- On the 5th of October 2020 partners from ULIMPIA met again on-line to discuss in detail patch integration issues.

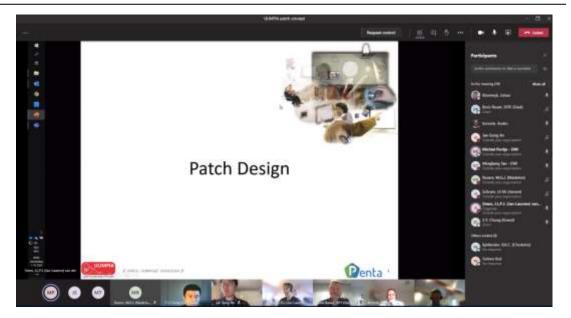




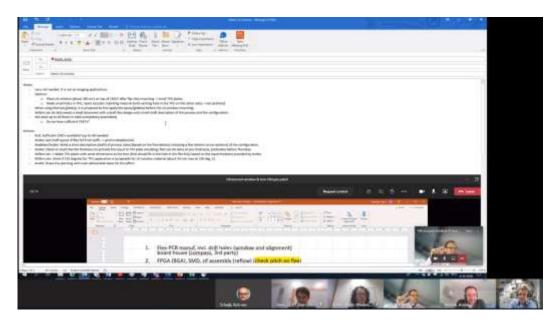


Impressions from the first Health.E lighthouse workshop the 26th of August 2020 [Doc_131]





Impression of an additional workshop organized the 30th of September and 1st of October 2020 to discuss topics related to the flex design and the patch integration. Present where partners from DTIF, TNO, TUDelft, and Philips.



On the 5th of October 2020 partners from ULIMPIA met again on-line to discuss in detail patch integration issues.