



## **Nanonets2Sense**

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**Approvals**

Role	Name	Company	Date
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V4	06/05/19	Validation	GB members

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## Executive summary

This deliverable summarizes the dissemination activities organized by the Nanonets2Sense consortium partners during the second Period of the project (August 1<sup>st</sup>, 2017 - March 31<sup>st</sup>, 2019).

Dissemination of knowledge within and beyond the project has been mostly realized through the Nanonets2Sense website, the Nanonets2Sense workshop organised at ESSDERC2018, the presentations given by Nanonets2Sense partners at international conferences and meetings included some invited presentations and participations in national events, as well as publications in high-level peer reviewed international journals listed in the deliverable.

## Report

### 1.1. Definition of project identity

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- The Nanonets2Sense project identity, very significant for the image of the project, was defined at the beginning of the project with a logo as well as templates for deliverables, presentations, reports and was used by Nanonets2Sense partners for every oral or written project communication, or presentation at conferences.
- The creation of a website: <http://www.nanonets2sense.eu/>
- All templates are available on the Consortium area of the website.

### 1.2. Dissemination beyond the project

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We will give here an overview of the different channels of communication which were used for dissemination beyond the project. Details can be found in paragraph 1.6.

#### 1.2.1. Website

The **Website** of the Nanonets2Sense project was created in February 2016 (Month 1). It aims at promoting the project and its activities, such as workshops, trainings and competences of Nanonets2Sense partners.

The website has been regularly updated. Dissemination beyond the project is addressed by our website public area. Tutorial texts for the general public and more specialized contents for experts address dissemination toward different communities.

#### **Public area**

- **For general public (in partners' native language, i. e. in English, French, Swedish, and German)**

- General presentation (comprehensive project presentation for non-specialists)
- Impact
- Announcements of forthcoming events
  
- **For Researchers (Scientific and Technological Community)**
  - Project presentation
  - List of Workpackages
  - Main scientific results
  - Workshops organized
  - Newsletters
  
- **For Industrials**
  - Project presentation
  - Innovations
  - Future applications
  
- **For Students**
  - Project presentation
  - Main scientific results
  - Forthcoming events

Shared pages, interesting all targets are also available:

- Breaking News
- Consortium
- Project Motivation
- Dissemination page (Press releases, Newsletters, listing all dissemination activities, including links to published papers, workshops)
- Public Deliverables
- Contact

### 1.2.2. *Press Releases, Leaflets, Newsletters, Posters*

- A final **Press release** will be disseminated in May 2019
- **Leaflets:** the second edition was available at partner's institutions and distributed at workshops, EF ECS and conferences.
- **Two Nanonets2Sense Newsletters were published** to satisfy the need for effective dissemination of project goals. The first Newsletter presented the first results of the project. The second Newsletter, done in the framework of the Nanonets2Sense workshop at ESSDERC 2018, highlighted the main results presented there.

They targeted mainly the scientific and technical community and to some extent a more general public. They were e-mailed to all *Nanonets2Sense* partners, available on

LinkedIn, and distributed whenever possible, at conferences, workshops, seminars, EF ECS and internal and national events, in order to promote the project.

- **The final *Nanonets2Sense Newsletter* is under finalization:** it will present the final results obtained during the project.
- **Project Posters** in English were presented at EF ECS2017 and EF ECS 2018 to describe the project.
- Another more general version of the poster elaborated in French was used to allow easy presentation at general public events on science such as “Fête de la science” in October 2017 and in October 2018 in France.

### 1.2.3. *Dissemination via business and social networks*

- A Nanonets2Sense group has been created on LinkedIn in which Publications, Events, Flyers, conference and workshop are highlighted.
- Articles were also published on the ams AG Facebook account.

### 1.2.4. *Participation in events addressed to the general public*

- GINP participated at “*Parvis des Sciences*” in France on October 20-21, 2017
- GINP participated at “*Parvis des Sciences*” in France on October 12, 2018
- KTH participated at “Future Friday” in Sweden on October 19, 2018

### 1.2.5. *Publications and participation at conferences/Workshops*

Last but not the least, achievements and knowledge gathered within the *Nanonets2Sense* project were widely disseminated through **publications in major international journals** and **participation** of *Nanonets2Sense* members in **international conferences** and workshops.

- **Thesis (1) and Master (1) dissertations**
- **Publications in high Level scientific journals:** 14 journal papers in high-level international journals were accepted by *Nanonets2Sense* members during this second period, among which 10 are already published. One other journal paper has been submitted.
- **Publications in Conference Proceedings:** 1 IEEE Conference Proceedings and 2 others are accepted at this date.
- **Participation of Nanonets2Sense Partners and Presentations given at major International Conferences and Workshops (EUROSOI-ULIS2018,...)**

This activity has been intense with **27 conference/workshop presentations** given by *Nanonets2Sense* partners during this second part of the project.

Only publications and presentations which clearly acknowledged the *Nanonets2Sense* project are listed.

#### **1.2.6. Promotion of science among young people from medium and high schools**

**An information kit about the biomedical sensors developed in the Nanonets2Sense project** was elaborated in Period 1: “**Demonstrator for scientific vulgarisation: Nanonet based DNA biosensor mock-up**” in French by GINP and presented at general public events on science such as « Fête de la science » in France in Period 2.



**Nanonet based DNA biosensor mock-up**

#### **1.2.7. Organisation of a Nanonets2Sense workshop**

**A Nanonets2Sense workshop** was successfully organized at ESSDERC2018 on September 3<sup>rd</sup>, 2018 in Dresden, Germany, jointly with the SINANO Institute and in collaboration with 2 other H2020 projects (CSA-NEREID and ERA-NET Convergence).

#### **1.2.8. Booths at EF ECS 2017 and 2018**

**A Nanonets2Sense booth** was held at both 2017 and 2018 editions of the European Forum Electronic Components and Systems.

At EF ECS 2017 in Brussels, Belgium on December 5-7, 2017, a poster explaining the concept of the project was presented by GINP.

A Demonstrator was presented by CCS and explanations on the project, based on the Nanonets2Sense posters, were provided by GINP and CCS at EF ECS 2018 in Lisbon, Portugal on November 19-21, 2018.

### 1.3. Dissemination within the project

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Dissemination of knowledge within the *Nanonets2Sense* project was provided through:

#### 1.3.1. Project meetings

- 2 Governing Board meetings on:
  - February 28<sup>th</sup>, 2018 in Grenoble
  - November 6<sup>th</sup>, 2018 in Grenoble
- 1 Governing Board by Teleconference on October 23<sup>rd</sup>, 2018
- 2 Progress meetings on:
  - February 27-28<sup>th</sup>, 2018 in Grenoble
  - February 4<sup>th</sup>, 2019 in Lyon
- Regular WPs/Tasks meetings or Teleconferences.

#### 1.3.2. The Consortium area of the Nanonets2Sense Website

It contains the following sections, many of which instrumental to the internal dissemination of project results.

- *Publications*
- *Deliverables*
- *Nanonets2Sense meetings :*
  - *Progress meetings (Presentations & Minutes)*
  - *Progress meetings (short Minutes)*
  - *Conferences Calls and Minutes*
  - *Review meetings (Presentations, Information, reports)*
  - *Advisory Board meetings*
- *Management documents*
- *Official documents*
- *Templates and Logos*
- *Agenda*
- *Mailing lists*
- *Nanonets2Sense reports*
- *To Do lists*
- *Samples and Masks*
  - *Samples tracking*
  - *Masks details*
- *Milestones*
- *Dissemination and Exploitation*

### 1.4. PhDs and Post doc researchers:

As PhDs and Post Docs who develop or use Nanonets2Sense research and achievements will contribute to disseminate its results in the next years, it is thus worth recording their involvement in the project. During this second period, there was a significant number of PhDs and Post-docs working in connection with the Nanonets2Sense project as per the list below:

Number of Students, PHds & Post Doc working partially on Nanonets2Sense during the 2nd Period (01/08/2017 - 31/03/2019)									
	Total Students	Total PhDs	Total Post Docs	WP2	WP3	WP4	WP5	WP6	Total
<b>GINP</b>	8	5	3						<b>8</b>
<i>LTM</i>	1		1	x					
<i>LMGP</i>	5	4	1	x	x				
<i>IMEP</i>	2	1	1			x			
<b>KTH</b>	1	1		x	x		x		<b>1</b>
<b>CCS</b>	3					x	x		<b>3</b>
<b>ams</b>	0								<b>0</b>
<b>Total</b>	<b>12</b>	<b>6</b>	<b>3</b>						<b>12</b>

### 1.5. Recapitulative Table

As announced in the DOA, the Nanonets2Sense Dissemination is based on the broad following strategy:

- **Dissemination targeting primarily academia:** Publications at conferences and in journals (also with open access journals) , Newsletter, Workshop
- **Dissemination targeting primarily industry:** Newsletter, joint publications with industrial partner organizations, and dissemination via business networks (LinkedIn),...
- **Dissemination targeting primarily policy makers:** Newsletter, via ECSEL, ENIAC...
- **Dissemination targeting primarily the wider public:** Public area of the Website, Press releases, Newsletters, Public Deliverables.

The following table summarizes the actions carried out during this second Period as a function of targeted public:



D6.2 – Report dissemination activities during second reporting period

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<b>Actions done / Targets</b>	<b>Wider Public</b>	<b>Academia</b>	<b>Industry</b>	<b>Policy Makers</b>
Website	x	x	x	x
Press Releases	x	x	x	x
Leaflets		x	x	
Newsletters		x	x	x
<i>Dissemination via business networks</i>		x	x	x
Participation in events addressed to the general public	x	x		
Publications		x	x	
Presentations at events / Conferences		x	x	
Educational Mock-up	x			
Booth at EF ECS		x	x	x

1.6. References

NANONETS2SENSE - LIST OF DISSEMINATION ACTIVITIES – PARTICIPATION AT WORKSHOPS, CONFERENCES...M19-M38									
NO.	Type of activities <sup>1</sup>	Main leader/ author Partners involved	Title of event	Title of paper/presentation/etc. Emphasize if invited	Date	Place	Type of audience <sup>2</sup>	Size of audience	Countries addressed
1	Conference Poster	T.T.T. Nguyen, M. Legallais, F. Morisot, T. Cazimajou, B. Salem, M. Mouis, V. Stambouli and C.Ternon <b>GINP</b>	<b>EUROSENSORS 2017</b> , XXXI edition	On the development of label-free DNA sensor using silicon nanonet field effect transistors	Sept 3-6, 2017	Paris, France	Scientifics Industrials	500	World
2	Conference oral	F. Morisot, T. Demes, M. Mouis, V. Stambouli, C. Ternon <b>GINP</b>	EUROMAT 2017	ZnO nanonets: functional nanomaterials designed for electrical detection	Sept. 17-22, 2017	Thessaloniki, Greece	Scientifics Industrials	50	European
3	Conference oral	V. Stambouli, T. T. T. Nguyen, M. Legallais, F. Morisot, M. Mouis, B. Salem, and C. Ternon <b>GINP</b>	IMAPS 5 <sup>th</sup> Advanced Technology Workshop on Microelectronics, Systems and Packaging For Medical Applications	Developing label-free DNA sensor using silicon nanonet field-effect transistors	Nov. 22 - 23, 2017	Lyon (France)	Scientifics	50	France
4	Conference oral	M. Kayaharman, M. Legallais, C. Ternon, S. Park, B. Salem, M. Irannejad, E. Abdel-Rahman and M. Yavuz <b>GINP</b>	4 <sup>th</sup> International Electronic Conference on Sensors and Applications	Evaluation of Silicon Nanonet Field Effect Transistor as Photodiodes	Nov. 15-30, 2017	e-conferences	Scientifics		World
5	Poster	Mireille Mouis <b>GINP</b>	<i>EF ECS 2017</i>	<i>Nanonets2Sense: Integrated sensors for health and well-being</i>	Dec. 5-7, 2017	Brussels, Belgium	Scientifics Industrials Policy Makers	200	European

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6	Conference oral	F. Morisot, V. H. Nguyen, D. Muñoz-Rojas, D. Riassetto, M. Langlet, M. Mouis, C. Ternon <b>GINP</b>	13 <sup>ème</sup> Journée Sol-Gel et Chimie Liquide Auvergne Rhône-Alpes	Synthèse de structures cœur-coquille ZnO/Al:ZnO à très grand facteur de forme	Apr.5, 2018	Saint-Etienne (France)	Scientifics	40	French
7	Conference poster	T.T.T. Nguyen, M. Legallais, V. Stambouli, M. Mouis, B. Salem and C. Ternon <b>GINP</b>	Nanowire Week	Silicon nanonet: from nanostructured material to macroscale functional devices for sensing applications	June 11-15, 2018	Hamilton, Ontario (Canada)	Scientifics	150	World
8	Conference poster	Morisot F., Nguyen V., Muñoz-Rojas D., Mouis M., Ternon C. <b>GINP</b>	Nanowire week 2018	Effect of passivation on two-dimensional randomly oriented ZnO nanowire networks for the electrical detection of acetone	June14, 2018	Hamilton, Canada	Scientifics	150	World
9	Conference Oral	T. Nguyen, F. Morisot, M. Legallais, M. Valléjo-Pérez, Mi. Mouis, B. Salem, V. Stambouli, and C. Ternon <b>GINP</b>	Journées de la Matière Condensée 2018/ Last advances in semiconductor nanostructures	Semiconducting nanonets: Design and integration into functional devices for multiple sensing applications	Aug. 27-31, 2018	Grenoble	Scientifics	60	France
10	Workshop	Per-Erik Hellström <b>KTH</b>	Joint SINANO-NEREID-Nanonets2Sense-Convergence Workshop	Si nanowire-based biosensor integration with CMOS	Sept. 3, 2018	Dresden (Germany)	Scientifics	50	World
11	Workshop	Claudio Zuliani <b>CCS</b>	Joint SINANO-NEREID-Nanonets2Sense-Convergence Workshop	Chemiresistors for breath analysis	Sept. 3, 2018	Dresden (Germany)	Scientifics	50	World
12	Workshop	Céline Ternon, <b>GINP</b>	Joint SINANO-NEREID-Nanonets2Sense-Convergence Workshop	Engineering of Si and ZnO nanonets for the fabrication of functional devices	Sept. 3, 2018	Dresden (Germany)	Scientifics	50	World
13	Workshop	T. Cazimajou, M. Legallais, T.T.T. Nguyen, M. Mouis, C. Ternon, V. Stambouli, G. Ghibaudo, <b>GINP</b>	Joint SINANO-NEREID-Nanonets2Sense-Convergence Workshop	Characterization and modelling of nanonet-based FETs in the presence of percolating effects	Sept. 3, 2018	Dresden (Germany)	Scientifics	50	World

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14	Workshop	Saul Rodriguez, KTH	Joint SINANO-NEREID-Nanonets2Sense-Convergence Workshop	Low-power readout for threshold voltage shift detection	Sept. 3, 2018	Dresden (Germany)	Scientifics	50	World
15	Workshop	Mireille Mouis, GINP	Joint SINANO-NEREID-Nanonets2Sense-Convergence Workshop	Nanonets2Sense Integration concept and project overview	Sept. 3, 2018	Dresden (Germany)	Scientifics	50	World
16	Conference/ Proceedings	Claudio Zuliani, CCS	EuroSensors	Optimizing Paste Formulation for Improving the Performances of CMOS-Based MOx Chemiresistors Prepared by Ink-Jet Printing	Sept. 9–12, 2018	Graz, Austria	Scientifics Industrials	1000	World
17	Conference oral	T. T. T. Nguyen, M. Legallais, F. Morisot, R. Bange, M. Vallejo Perez, E. Bano, C. Ternon, M. Mouis, B. Salem, V. Stambouli GINP	Ibersensors 2018	New 1D and 2D Semiconducting nanostructures for FET detection of DNA	Sept. 17-19, 2018	Barcelona (Spain)	Scientifics	150	South america and Europe
18	Conference oral	M. Vallejo Perez, F. Morisot, C. Ternon, N. Spinelli, V. Stambouli GINP	Ibersensors 2018	Towards Apta-NanoNetFET biosensors	Sept. 17-19, 2018	Barcelona Spain)	Scientifics	150	South america and Europe
19	Conference oral	V. Stambouli, T.T. T. Nguyen, M. Legallais, F. Morisot, R. Bange, M. Vallejo Perez, E. Bano, C. Ternon, M. Mouis, B. Salem GINP	11 <sup>th</sup> Ibero-American Congress on Sensors	New 1D and 2D semiconducting nanostructures for FET detection of DNA	Sept. 17-19, 2018	Barcelona, Spain	Scientifics	150	South america and Europe
20	Workshop	F. Morisot, O. Lourhzal, M. Texier, T. W. Cornelius, M. Mouis, C. Ternon GINP	International workshop on Semiconducting Nanomaterials for Health, Environment and Security Applications	Randomly oriented monocrystalline ZnO nanowire networks for acetone electrical detection	Nov. 6-7, 2018	Grenoble (France)	Scientifics	60	World
21	Workshop	T.T.T. Nguyen, M. Vallejo-Perez, V. Stambouli, M. Mouis, B. Salem, C.	International workshop on Semiconducting Nanomaterials for Health, Environment and	Highly performant field-effect transistors based on Si nanonet: a novel approach for portable, easy-to-use and label-Free	Nov. 6-7, 2018	Grenoble (France)	Scientifics	60	World

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		Ternon <b>GINP</b>	Security Applications	DNA Sensors						
22	Workshop	T. Cazimajou, T.T.T. Nguyen, M. Legallais, M. Mouis, B. Salem, C. Ternon, G. Ghibaudo <b>GINP</b>	International workshop on Semiconducting Nanomaterials for Health, Environment and Security Applications	Finite-Element-Modelling-based analysis of the influence of technology-related parameters on nanonet-FET performance	Nov. 6-7, 2018	Grenoble (France)	Scientifics	60	World	
23	Workshop	C. Zuliani, J. Luque, Zeeshan ALI1, <b>CCS</b> F. Morisot, M. Mouis, C. Ternon <b>GINP</b>	International workshop on Semiconducting Nanomaterials for Health, Environment and Security Applications	Metal Oxide Nanonets for Gas Sensing Applications	Nov. 6-7, 2018	Grenoble (France)	Scientifics	60	World	
24	Workshop	PE. Hellström, G. Jayakumar, <b>KTH</b> M. Legallais, M. Mouis, I. Pignot-Paintrand, V. Stambouli-Sene, C. Ternon <b>GINP</b>	International workshop on Semiconducting Nanomaterials for Health, Environment and Security Applications	<i>Wafer scale fabrication and characterization of HfO2 integrated silicon nanowire biosensor for DNA sensing application</i>	Nov. 6-7, 2018	Grenoble (France)	Scientifics	60	World	
25	Workshop	M. Vallejo Perez, F. Morisot, T.T.T. Nguyen, C. Ternon, N. Spinelli, B. Salem, V. Stambouli <b>GINP</b>	International workshop on Semiconducting Nanomaterials for Health, Environment and Security Applications	Towards a new generation of FET aptasensors based on silicon nanowire networks	Nov. 6-7, 2018	Grenoble (France)	Scientifics	60	World	
26	Workshop	Claudio Zuliani, <b>CCS</b>	International workshop on <i>Semi-conducting Nanomaterials for Health, Environment and Security Applications</i>	<i>ZnO based Nanowire Network for Gas Sensing Applications</i>	Nov. 6-7, 2018	Grenoble, France	Scientifics	60	World	
27	Poster	Mireille Mouis <b>GINP</b>	<i>EF ECS 2018</i>	<i>Nanonets2Sense: Integrated sensors for health and well-being Main results</i>	Nov. 20-22, 2018	Lisbon, Portugal	Scientifics Industrials Policy Makers	200	European	

PRESS RELEASES AND NEWSLETTERS... M19-M38						
N°	Type of media	Organizer/ Partners involved	Title	Date	Type of audience	Countries addressed
1	Newsletter	GINP, SINANO & all partners	2 <sup>nd</sup> Nanonets2Sense Newsletter	August 2018	Scientifics, Students, ...	European
2	Newsletter	GINP, SINANO & all partners	3 <sup>rd</sup> Nanonets2Sense Newsletter	May 2019	Scientifics, Students, ,, ...	European
3	Press Release	GINP, SINANO & all partners	Final Press Release	May 2019	Scientifics, Students, Industrials ...	European

PROJECT PRESENTATIONS AT EVENTS ON NATIONAL AND INTERNATIONAL LEVEL BY NANONETS2SENSE PARTNERS M19-M38						
Organizer/Partners involved	Title of event	Date	Place	Type of audience	Size of audience	Countries addressed
Saul Rodriguez KTH	Future Friday KTH: Presentation + exhibition "Teknik som räddar liv" - Technologies that save lives	October 19, 2018	Kista, KTH, Sweden	High school students	500	Sweden
GINP	Parvis des Sciences	October 2017	Grenoble, France	Students, General Public	2 000	France
GINP	Parvis des Sciences	October 2018	Grenoble, France	Students, General Public	2 000	France
CCS	European Forum Electronic Components and Systems (EFECS): Demonstrator	20-22 November 2018	Lisbon, Portugal	Scientific, Policy-makers	200	Mainly EU

**LIST OF ALL SCIENTIFIC PEER REVIEWED PUBLICATIONS RELATING TO THE FOREGROUND OF THE PROJECT  
BY NANONETS2SENSE PARTNERS M19-M38**

*Publications could be: Article in Journal, Publication in Conference/Workshop Proceedings, Chapter in a Book, Thesis/Dissertation*

No.	Title	Main author, Partners involved	Title of the Journal/ Proceedings/ Book...	Number, date or frequency	Publisher	Place of publication or open repository (as HAL)	Year of publication	Relevant pages	ISBN	Permanent identifiers (if available) DOI
1	Wafer-scale HfO <sub>2</sub> encapsulated silicon nanowire field effect transistor for efficient label-free DNA hybridization detection in dry environment.	G. Jayakumar, M. Legallais, P-E. Hellstrom, M. Mouis, I. Pignot-Paintrand, V. Stambouli-Sene, C. Ternon and M. Östling <b>KTH and GINP</b>	Nanotechnology	Vol 30, Number18	IOP	Open access hal- 02012585	2019		(in press)	<a href="https://doi.org/10.1088/1361-6528/aaffa5">doi.org/10.1088/1361-6528/aaffa5</a>
2	Pixel based biosensor for enhanced control: Silicon nanowires monolithically integrated with field-effect transistors in fully depleted silicon on insulator technology	G. Jayakumar and M. Östling, <b>KTH</b>	Nanotechnology	Vol.30, Number 22	IOP	Open access	2019		09574 484	<a href="https://dx.doi.org/10.1088/1361-6528/ab0469">https://dx.doi.org/10.1088/1361-6528/ab0469</a>
3	Monolithic Wafer Scale Integration of Silicon Nanoribbon Sensors with CMOS for Lab-on-Chip Application	G. Jayakumar, P-E. Hellström and M. Östling, <b>KTH</b>	Micromachines	Vol 9, Issue11	MDPI	Open access	2018		20726 66X	<a href="https://doi.org/10.3390/mi9110544">doi: 10.3390/mi9110544</a>
4	Electrical characteristics of silicon percolating nanonet-based field effect transistors in the presence of dispersion	T Cazimajou, M Legallais, M Mouis, C Ternon, B Salem, G Ghibaudo <b>GINP</b>	Solid-State Electronic	2018 Vol. <b>143</b>	Elsevier	hal- 01948032	2018	83-89	00381 101	<a href="https://doi.org/10.1016/j.sse.2017.11.013">10.1016/j.sse.2017.11.013</a>
5	An innovative large scale integration of silicon nanowire-	M Legallais, TTT Nguyen, M Mouis, B Salem, E Robin, P	Solid-State Electronic	2018 Vol. <b>143</b>	Elsevier	hal- 01948061	2018	97-102		<a href="https://doi.org/10.1016/j.sse.2017.11.003">10.1016/j.sse.2017.11.003</a>

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	based field effect transistors	Chenevier, C. Ternon GINP								<a href="#">8</a>
6	Utilizing the superior etch stop quality of HfO <sub>2</sub> in the front end of line wafer scale integration of silicon nanowire biosensors	G. Jayakumar, P-E.Hellström and M. Östling, KTH	Microelectronic Engineering	Vol. 212	Elsevier		2019	Pages 13-20	01679 317	<a href="https://doi.org/10.1016/j.mee.2019.03.006">https://doi.org/10.1016/j.mee.2019.03.006</a>
7	First evidence of superiority of Si nanonet field effect transistors over multi-parallel Si nanowire ones in view of electrical DNA hybridization detection	Nguyen, T.T.T., Legallais, M., Morisot, F., Cazimajou, T., Stambouli-Sene, V., Mouis, M., Salem, B., & Ternon, C GINP	Material Research Express	2019	IOP	hal-01947795	2019	6 016301		<a href="https://doi.org/10.1088/2053-1591/aae0d5">10.1088/2053-1591/aae0d5</a>
8	Optimizing Paste Formulation for Improving the Performances of CMOS-Based MOx Chemiresistors Prepared by Ink-Jet Printing	C. Zuliani, L. Jerg, A. Hart, W. Simmendinger, M. Camara and Z. Ali CCS	Multidisciplinary Digital Publishing Institute Proceedings	Proceedings 2018 Vol.2, Number13	MDPI	Open access	2018	774		<a href="https://doi.org/10.3390/proceedings2130774">https://doi.org/10.3390/proceedings2130774</a>
9	Evaluation of Silicon Nanonet Field Effect Transistor as Photodiodes	M. Kayaharman, M. Legallais, C. Ternon, S. Park, B. Salem, M. Irannejad, E. Abdel-Rahman, M. Yavuz GINP	Multidisciplinary Digital Publishing Institute Proceedings	Proceedings 2017 Vol.2, Number3	MDPI	Open access hal-02016904	2017	124		<a href="https://doi.org/10.3390/ecs-a-4-04925">10.3390/ecs-a-4-04925</a>
10	Finite element simulation of 2D percolating silicon-nanonet field-effect transistor	T. Cazimajou ; M. Mouis ; G. Ghibaudo GINP	EUROSOI-ULIS 2018, Granada, Spain	March 2018	IEEE Xplore	hal-02016613	2018	Pages 1-3		<a href="https://doi.org/10.1109/ULIS.2018.8354760">10.1109/ULIS.2018.8354760</a>
11	Analytical expression of top surface charge sensitivity in fully depleted semiconductor on insulator MOS transistor.	G. Ghibaudo and G. Pananakakis, GINP	Nanoelectronic Devices ISTE OpenScience		ISTE	Open access	2019	Vol 3, pages 1-6 (2019).		<a href="https://doi.org/10.21494/ISTE.OP.2019.0347">10.21494/ISTE.OP.2019.0347</a>
12	Conception, étude et	Maxime LEGALLAIS	PhD thesis			Open	2017			<a href="https://tel.arc">https://tel.arc</a>



D6.2 – Report dissemination activities during second reporting period

	modélisation d'une nouvelle génération de transistors à nanofils de silicium pour applications biocapteurs	GINP				Access				<a href="https://hives-ouvertes.fr/te-l-01745520">hives-ouvertes.fr/te-l-01745520</a>
13	Fabrication et caractérisation de transistors à base de nanonets de silicium pour la détection électrique de l'ADN	Duc-Trung NGUYEN GINP	Master Dissertation M2 internship				2018			

**SCIENTIFIC PEER REVIEWED PUBLICATIONS RELATING TO THE FOREGROUND OF THE PROJECT  
BY NANONETS2SENSE PARTNERS M19-M38 ACCEPTED / SUBMITTED**

No.	Title	Main author, Partners involved	Title of the Journal/ Proceedings/ Book...	Publisher	Accepted/ Submitted
1	ZnO based Nanowire Network for Gas Sensing Applications	F. Morisot, C. Zuliani, J. Luque, Z. Ali, M. Mouis, V.H Nguyen, D. Munoz-Rojas, O. Lourhzal, M. Texier, T. W. Cornelius, C.Ternon <b>GINP &amp; CCS</b>	Material Research Express	IOP	accepted
2	Material Engineering of Percolating Silicon Nanowire Networks for Reliable and Efficient Electronic Devices	M. Legallais, TTT Nguyen, T Cazimajou, M Mouis, B Salem and C Ternon <b>GINP</b>	Materials Chemistry and Physics	Elsevier	submitted
3	Al <sub>2</sub> O <sub>3</sub> , Al doped ZnO and SnO <sub>2</sub> encapsulation of randomly oriented ZnO nanowire networks for high performance and stable electrical devices	Morisot F., Nguyen V. H., Montemont C., Maindron T., Muñoz-Rojas D., Mouis M., Langlet M., Ternon C. <b>GINP</b>	Nanotechnology	IOP	accepted
4	Monolithic fabrication of nano-to-millimeter scale integrated transistors based on transparent and flexible silicon nanonets.	TTT Nguyen, T Cazimajou, M Legallais, T Arjmand, V H Nguyen, M Mouis, B Salem, E Robin, and C Ternon <b>GINP</b>	Nano Futures	IOP	accepted
5	DNA grafting on silicon nanonets using an eco-friendly functionalization process based on epoxy silane	Demes-Causse, T and Morisot, F and Legallais, M and Calais, A and Pernot, E and Pignot-Paintrand, I and Ternon, C and Stambouli, V <b>GINP</b>	Materials Today, Proc	Elsevier	accepted
6	Low Temperature Electrical Characteristics of Si Nanonet Field Effect Transistors	T Cazimajou, TTT Nguyen, M Legallais, M Mouis, CTernon, G Ghibaudo, <b>GINP</b>	Proceedings of EUROSOI-ULIS, 2019	IEEE Xplore	accepted 2019
7	Low frequency noise characterization of Si Nanonet Field Effect Transistors	T Cazimajou, C Theodorou, M Mouis, TTT Nguyen, M Legallais, C Ternon and G Ghibaudo <b>GINP</b>	Proceedings of ICNF 2019 (Switzerland)	IEEE Xplore	accepted June 2019

## Conclusions & Outlook

The second period of the Nanonets2Sense project has seen a very active dissemination and promotion activity.

Knowledge gathered within the Nanonets2Sense project has been widely disseminated through the **publications in major international journals** and **participation** of Nanonets2Sense members in **international conferences/workshops**. In particular, **15** papers for international journals and **3** for Conference Proceedings have been prepared and **27 conference/workshop presentations** have been given by Nanonets2Sense partners during this period.

As an outlook toward the near future, **the final Nanonets2Sense Newsletter is under finalization**. It will be e-mailed to all Nanonets2Sense partners and distributed as wide as possible to the scientific community. **A Press Release is under preparation** and will be disseminated soon.