5G acceleration & opportunities beyond COVID-19!

Paul BOUDRE, Soitec CEO
Semicon SEA webinar – June 2020
Outline

1. How COVID-19 changed our lives
2. 5G acceleration & opportunities
3. Advancing technologies into the future
How COVID-19 changed our lives

Navigating through the storm

› Early implementation of precautionary measures, keeping all our employees safe

› No manufacturing interruption across all our sites: France, Belgium, Singapore, China

› Strong communication with customers, suppliers, partners

› Continuation of all our R&D projects

Success factors: learning from each other!

Global footprint:
› Better risk understanding and faster response time
› Risk exposure mitigation

Criticality of ecosystem:
› Strong link to customers, suppliers & partners
› SEMI and other organizations played an essential role in business continuity

Contribution to local communities

Home office culture
Semiconductors are the backbone of society

Connectivity
- Enable remote education
- Communicate
- Enable telemedicine

Edge computing
- Work
- Prevent disease spread
- Detect critical information

Big data
- Secure information
- Help make the right decision
- Protect
- Secure information
5G – The foundation for the next society

- 100x Network capacity
- 10x Speed
- 10x Fastest response time
- 10x Connected device

(*) Source: Qualcomm
5G world – connecting everyone and everything

- Autonomous cars & smart cities connected to the cloud
- Smarter manufacturing & agriculture
- Smarter health connected devices
- Immersive experiences
5G roadmap will drive our industry for the next decade

5G roadmap extends for 10+ years
Driving innovation to enhance smartphones and transform other industries

Source: Qualcomm Analyst Day, J. THOMPSON, Nov. 2019
### Engineered substrates from Soitec – key enabler of mobile revolution

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<th>2G</th>
<th>3G</th>
<th>LTE</th>
<th>LTE-A</th>
<th>LTE-A-Pro</th>
<th>5G sub-6GHz</th>
<th>5G (sub-6GHz + mmW)</th>
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Source: System Plus, Soitec estimates

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(*) either FD-SOI or RF-SOI

Mm² are serviceable accessible market
A comprehensive product portfolio offer for 5G sub-6GHz & mmW RF FEM

5G handset sub-6Ghz FEM key blocks

- PA
- LNA
- Switch
- Tuner
- Filter
- ET

5G handset mmW transceivers key blocks

- PA
- LNA
- Switch
- Phase Shifter
- RF & IF Rx/Tx Mixer

- Suitable solution
- (*) : No public data available for GaN
Collaboration is key in good and bad times
Our world will never be the same again
Thank you

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