



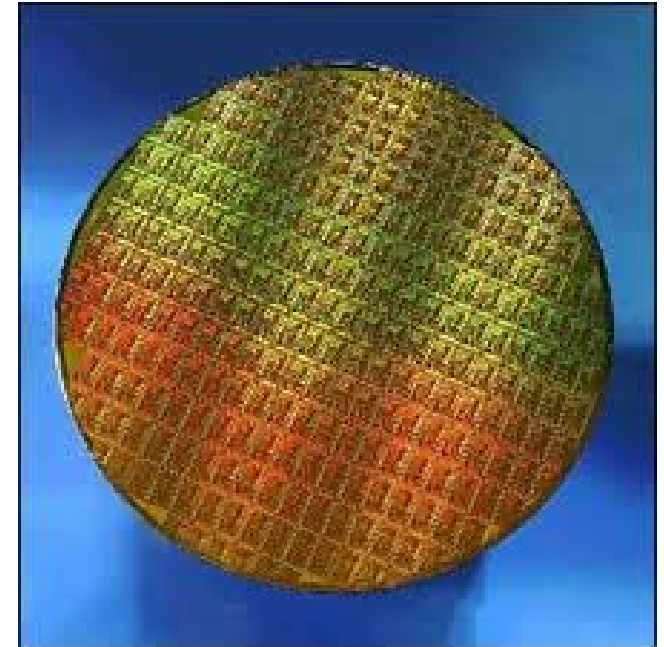
# Investor Presentation

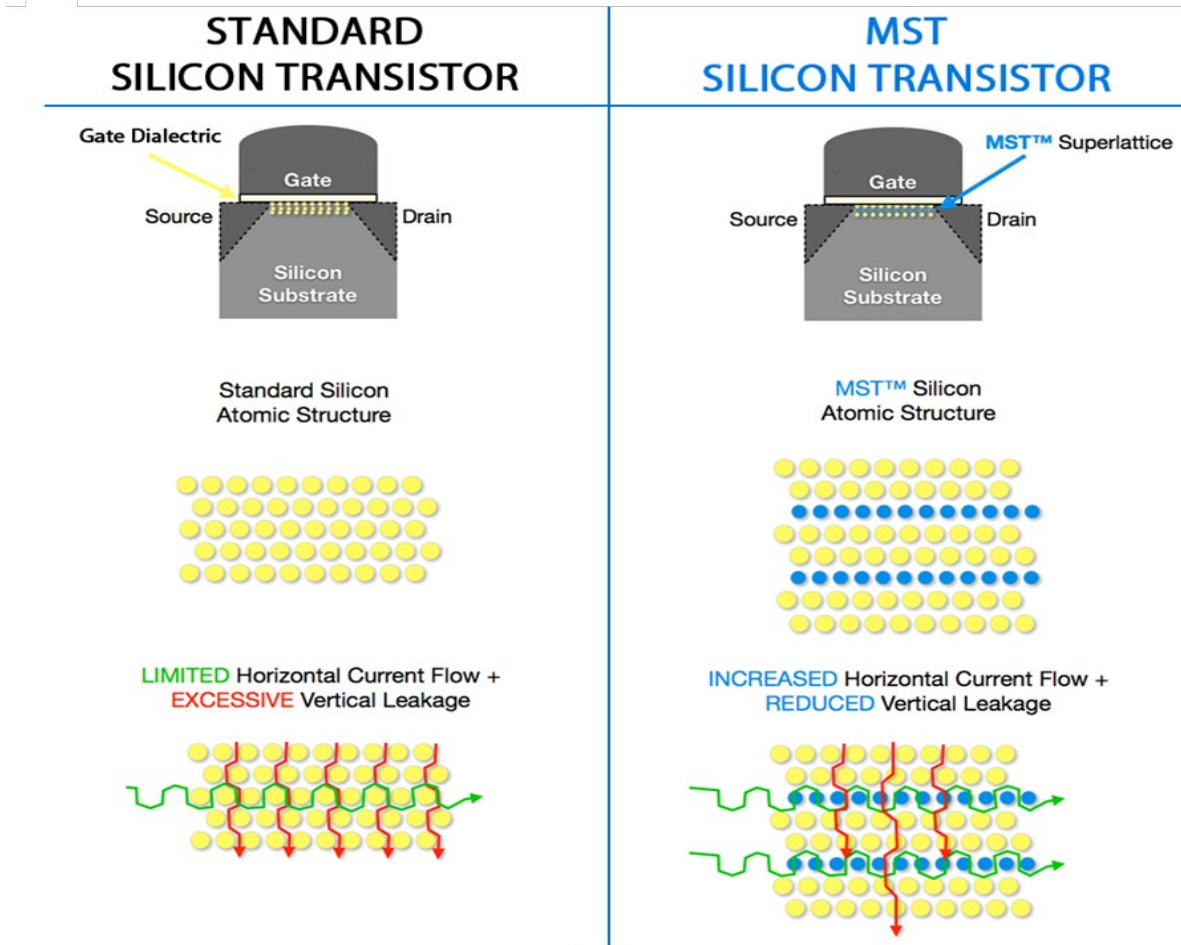
June 2019

This presentation contains forward-looking statements concerning Atomera Incorporated (“Atomera,” the “Company,” “we,” “us,” and “our”). The words “believe,” “may,” “will,” “potentially,” “estimate,” “continue,” “anticipate,” “intend,” “could,” “would,” “project,” “plan,” “expect” and similar expressions that convey uncertainty of future events or outcomes are intended to identify forward-looking statements. These forward-looking statements are subject to a number of risks, uncertainties and assumptions, including those described in the “Risk Factors” section of our Annual Report on Form 10-K for the year ended December 31, 2018 filed with the SEC on March 11, 2019 (the “Annual Report”). In light of these risks, uncertainties and assumptions, the forward-looking events and circumstances discussed in this presentation may not occur and actual results could differ materially and adversely from those anticipated or implied in our forward-looking statements. You should not rely upon forward-looking statements as predictions of future events. Although we believe that the expectations reflected in our forward-looking statements are reasonable, we cannot guarantee that the future results, levels of activity, performance or events and circumstances described in the forward-looking statements will be achieved or occur.

This presentation contains only basic information concerning Atomera. The Company’s filings with the Securities Exchange Commission, including the Prospectus Supplement, include more information about factors that could affect the Company’s operating and financial results. We assume no obligation to update information contained in this presentation. Although this presentation may remain available on the Company's website or elsewhere, its continued availability does not indicate that we are reaffirming or confirming any of the information contained herein.

- **Mears Silicon Technology (MST®)** is a thin film used to enhance semiconductors
  - *Results in higher performance, lower power, and lower costs for ICs*
- **Capital-light IP licensing business**
  - *Robust and growing patent portfolio*
- **Engaged with 50% of world's top semiconductor makers**
- **Licenses with Asahi Kasei Microdevices (AKM) and STMicroelectronics**
- **Strong team to commercialize technology**
  - *CEO ran \$1B+ divisions at Broadcom and Altera*
  - *Founder/CTO co-invented the EDFA for long-haul optical applications*
  - *Deeply experienced materials science and semiconductor engineering team*



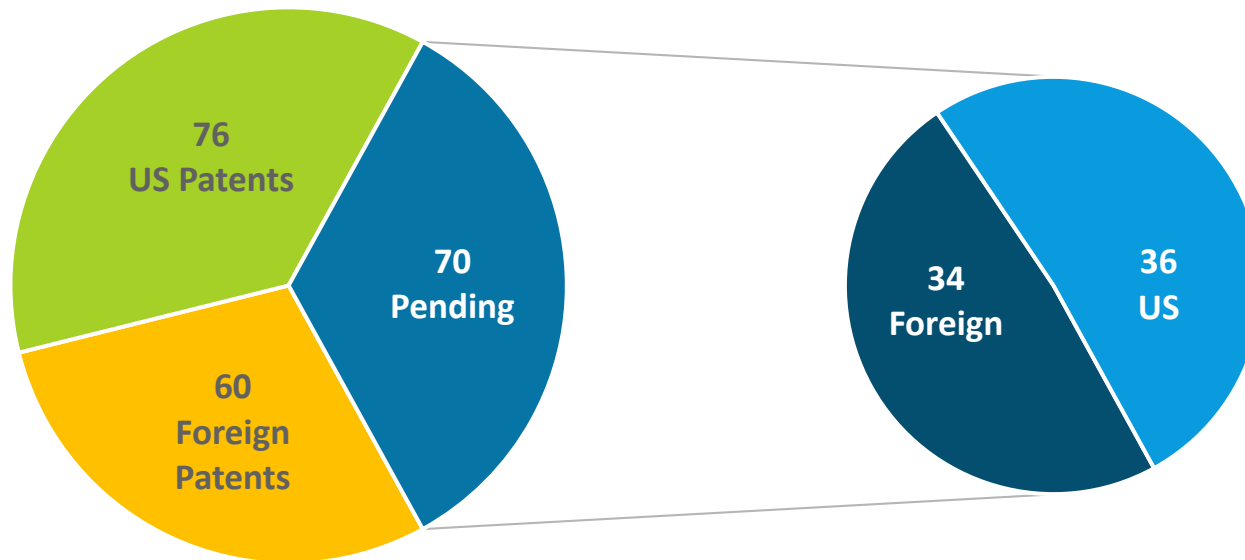


## Potential Benefits

- **Improved Efficiency**
  - *Higher transistor performance*
  - *Lower power consumption*
  - *Better reliability*
- **Lower cost**
  - *Reduced die size*
  - *Improved yield*
  - *Higher throughput*
- **Same benefits as a node shrink**

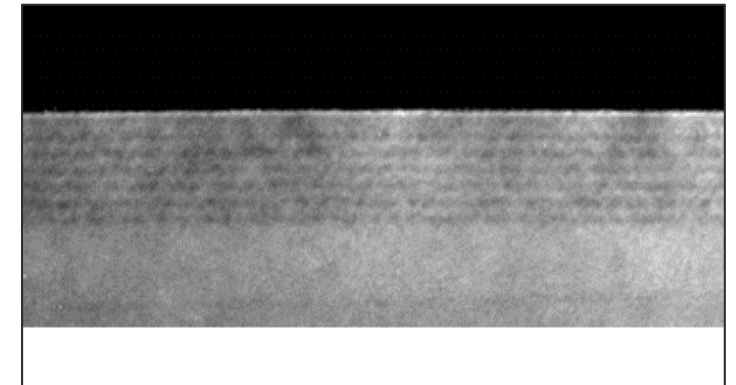


## Over 200 Patents Granted and Pending



*Core MST Method and Device*  
*MST Enabled Devices/Architecture*  
*Next-Gen Architectures using MST*

## Discoverable



These distinctive layers are visible on products using MST

## Extensive know-how

Extends life and value of patents

# Semiconductor Ecosystem



## Integrated Device Manufacturers



## Foundry



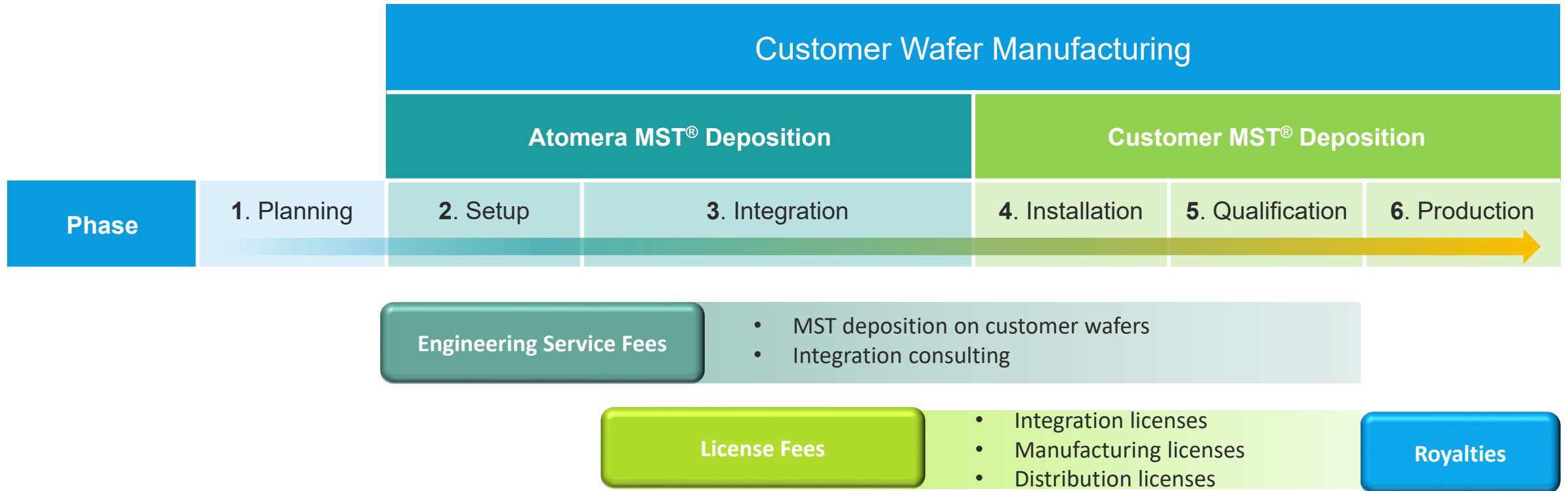
## Fabless



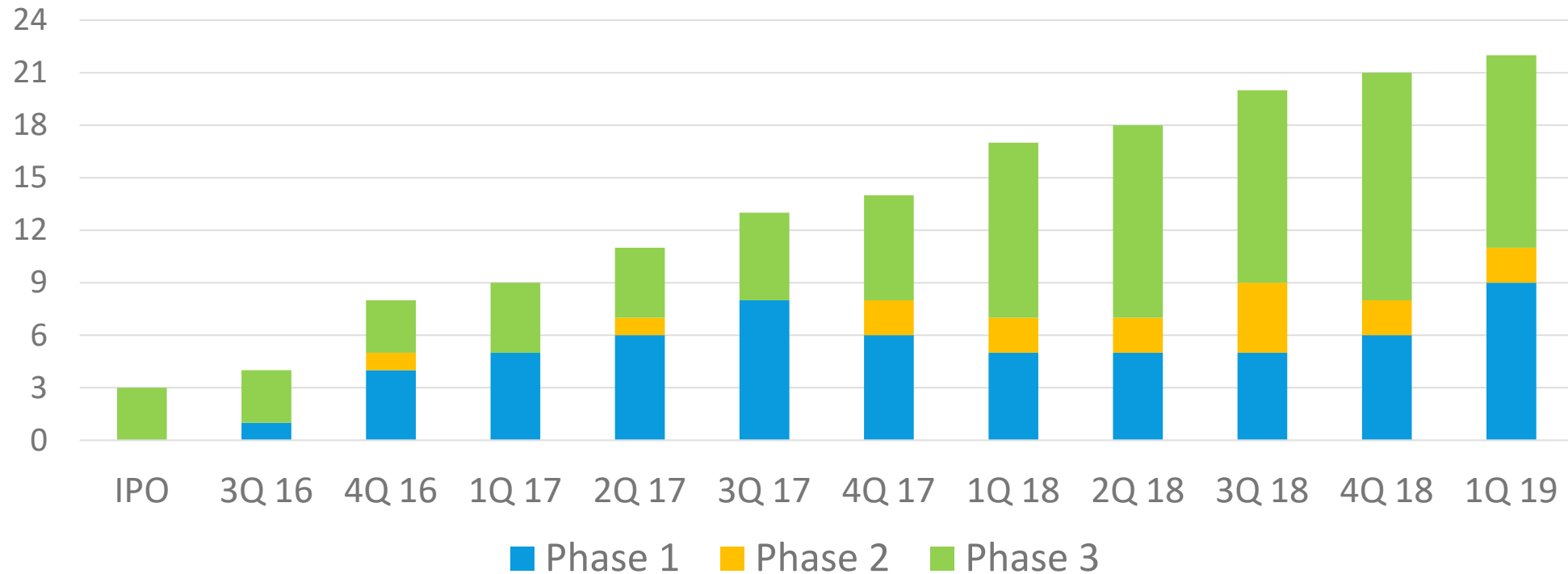
## Tool Suppliers



# Customer Engagement Model



## Number of Customer Engagements

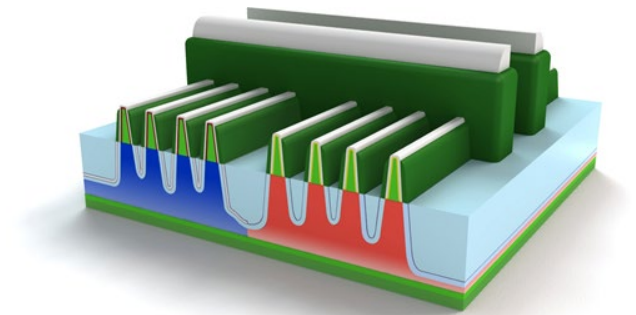


- 22 engagements, 17 customers
- Working with 50% of the world's top semiconductor makers\*



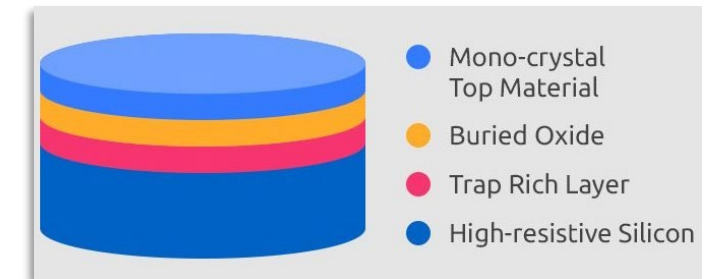
- 1. FinFET and Advanced Nodes

- Simulations of MST in FinFET devices show very high potential
  - Papers authored by Atomera and UC Berkeley
- Customer results validated MST performance at advanced process nodes
- Possibility for MST to be included in industry technology roadmap
- Market potential: \$6.2B in royalties



- 2. RF SOI

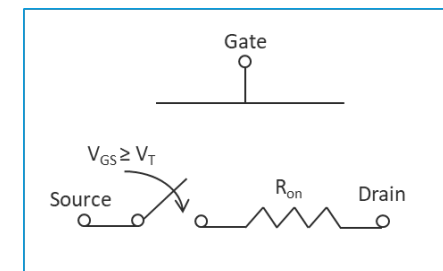
- RF SOI is an important enabling technology for 5G cellular
- Experimental data showed improvement in multiple areas using MST on SOI wafers
  - Paper authored by TI, Atomera, and ATDF
  - Demonstrated 20% mobility, 30% drive current, and leakage improvement
- Customer results in Q1 validated results from the paper
- MST now seen as key potential solution for the 5G cellular ramp
- Market potential: \$50M in royalties



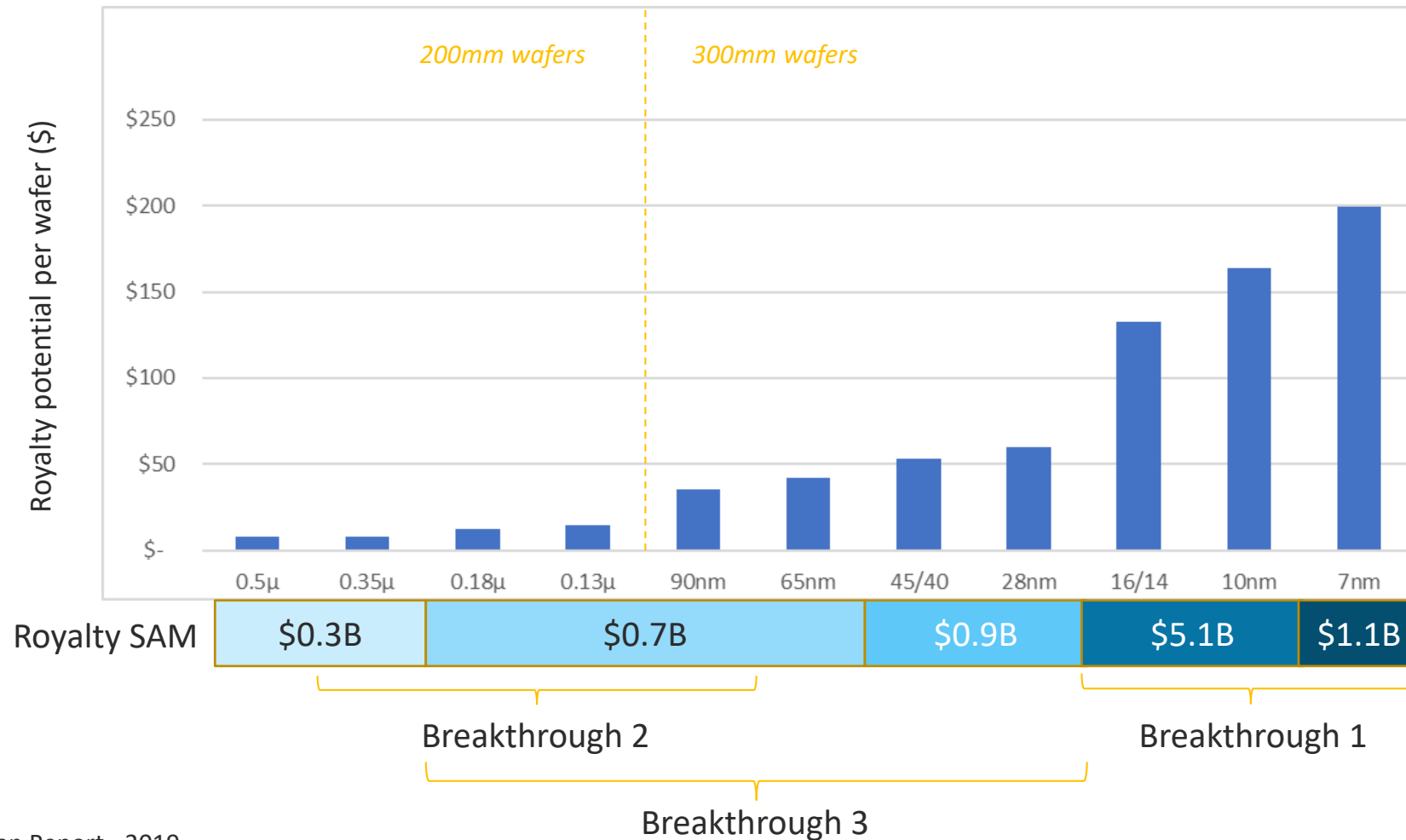
RF SOI

# 5V Analog Breakthrough

- 3. Breakthrough performance achieved on 5V analog products
- Large segment of the overall analog market
- Atomera has targeted ~20% improvement on 5V devices
- In April Atomera demonstrated a 50%+ improvement
  - Using MST-SP technology
  - Relatively fast and easy to implement
- Expected to give many business advantages
  - Time to license, accelerated time to royalty, negotiating leverage
  - Applicable to even more markets
- Market size: ~\$33B, or \$660M in royalties



# Royalty potential per node



Source: The McClean Report - 2019

# Royalty opportunity



- ~375 wafer fabs operating worldwide
- Adoption of MST in one fab, at 50% of capacity, can make Atomera profitable from royalties alone
  - 2019 non-GAAP OPEX guidance is \$11-12M

Example 1. Worldwide Average Fab		Example 2. Leading Foundry, 40nm Fab	
Monthly Fab Capacity <sup>1</sup> <i>(wafers/month)</i>	40,000	Monthly Fab Capacity <sup>1</sup> <i>(wafers/month)</i>	80,000
Industry average wafer ASP <sup>2</sup>	\$1,637	Industry average wafer ASP <sup>2</sup>	\$3,000
<b>Annual Revenue Potential<sup>2</sup></b>	<b>\$16M</b>	<b>Annual Revenue Potential<sup>2</sup></b>	<b>\$58M</b>
<i>Annual Revenue at 50% of ramp<sup>2</sup></i>	<i>\$8M</i>	<i>Annual Revenue at 50% of ramp<sup>2</sup></i>	<i>\$29M</i>

1. Represents wafers per year (200mm equ).  
2. 2016 Industry wafer ASP: \$1,637, 2% royalty  
Source: IC Insights Global Wafer Capacity 2017-2021 report

# Financial Overview



	Q1 '18	Q2 '18	Q3 '18	Q4 '18	Q1 '19
<b>GAAP Results</b>					
Revenue	-	\$0.1M	-	\$0.15M	\$0.1M
Gross Profit	-	(\$0.02M)	-	\$0.12M	\$0.1M
Operating Expense	(\$3.1M)	(\$3.2M)	(\$3.5M)	(\$3.4M)	(\$3.7M)
Net Loss	(\$3.1M)	(\$3.2M)	(\$3.4M)	(\$3.2M)	(\$3.5M)
<i>Loss Per Share</i>	<i>(\$0.26)</i>	<i>(\$0.26)</i>	<i>(\$0.28)</i>	<i>(\$0.22)</i>	<i>(\$0.24)</i>
<b>Reconciliation between GAAP &amp; Non-GAAP</b>					
Net Loss (GAAP)	(\$3.1M)	(\$3.2M)	(\$3.4M)	(\$3.2M)	(\$3.5M)
Stock-Based Compensation	\$0.5M	\$0.6M	\$0.6M	\$0.6M	(\$0.7M)
Adjusted EBITDA (Non-GAAP)*	(\$2.6M)	(\$2.6M)	(\$2.8M)	(\$2.6M)	(\$2.9M)

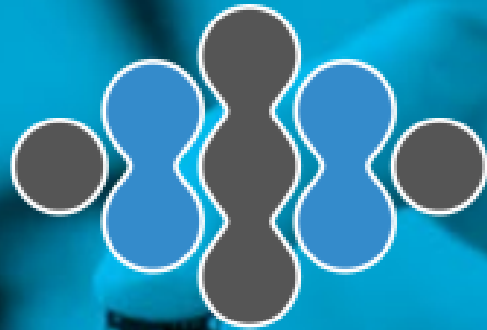
<b>March 31, 2019 Liquidity</b>	Actual	Pro Forma**
Cash	\$15.1M	\$21.5M
Shares Outstanding	15.3M	17.0M
Debt	\$ -	\$ -

\*Adjusted EBITDA is a non-GAAP financial measure. A full reconciliation of GAAP and non-GAAP results is contained in our Q1 press release.

\*\* Pro forma for May 29, 2019 equity financing



- High margin, recurring revenue financial model
- Solid cash position
- Strong technology and patent position
- Traction with many top industry players and growing licensee base
- Ramping commercial license revenues



atomera

Thank You