



atomera

Q1 2021 Conference Call

April 28, 2021

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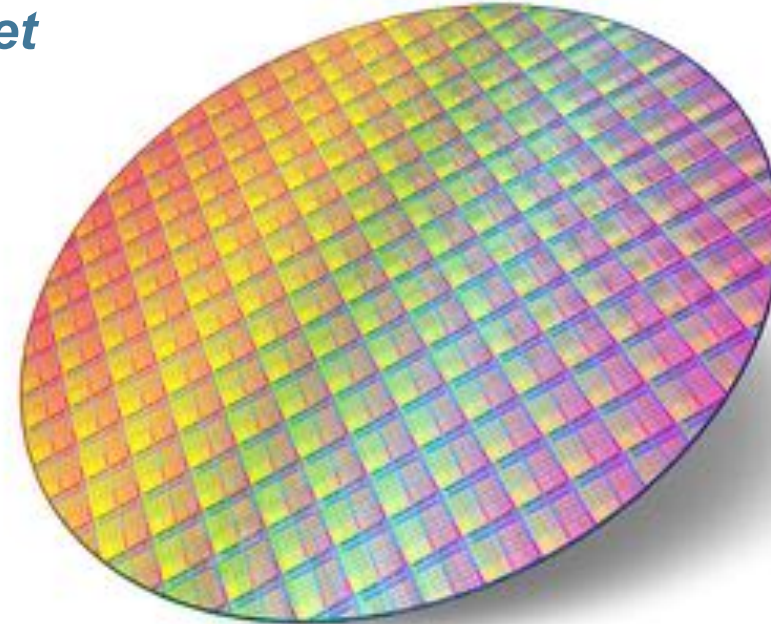
Mears Silicon Technology (MST®)

Quantum Engineered Materials



Transistor enhancement technology for the \$450B semiconductor market

High Leverage IP Licensing Business Model

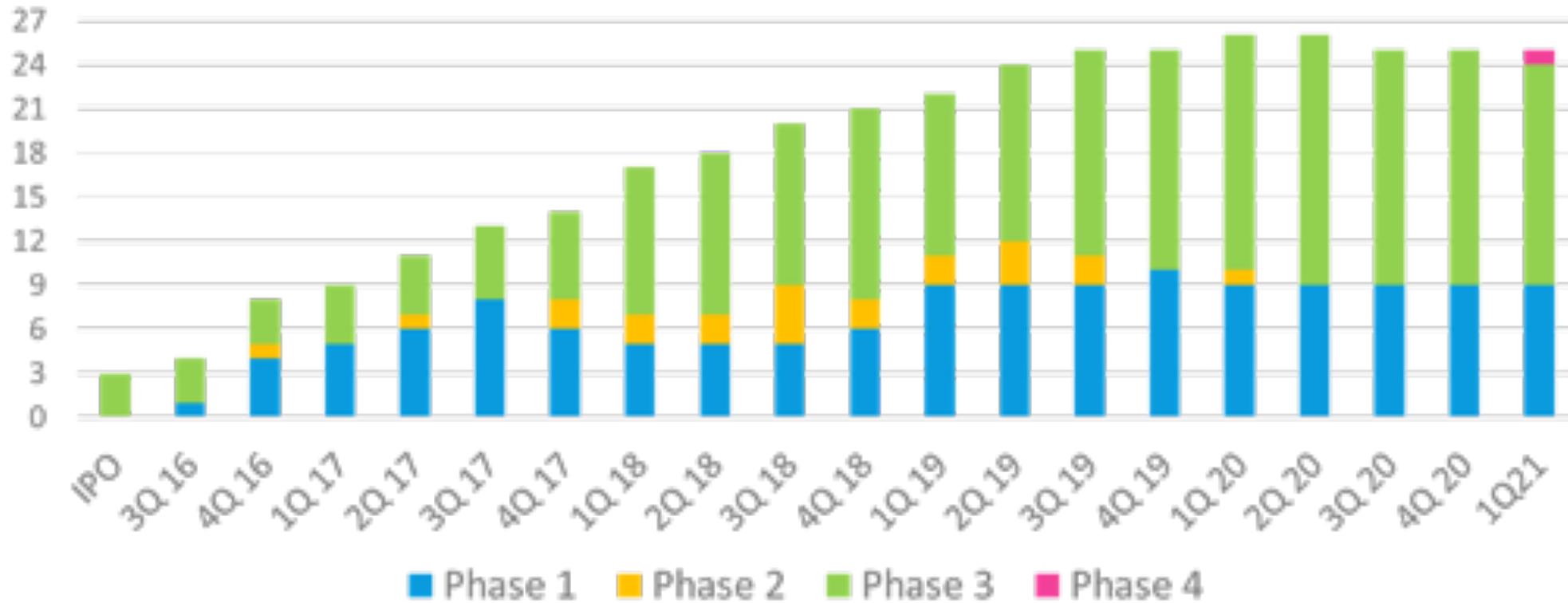


Top Tier Management Team

Strong, Growing and Defensible Patent Portfolio

Customer Pipeline

Number of Customer Engagements

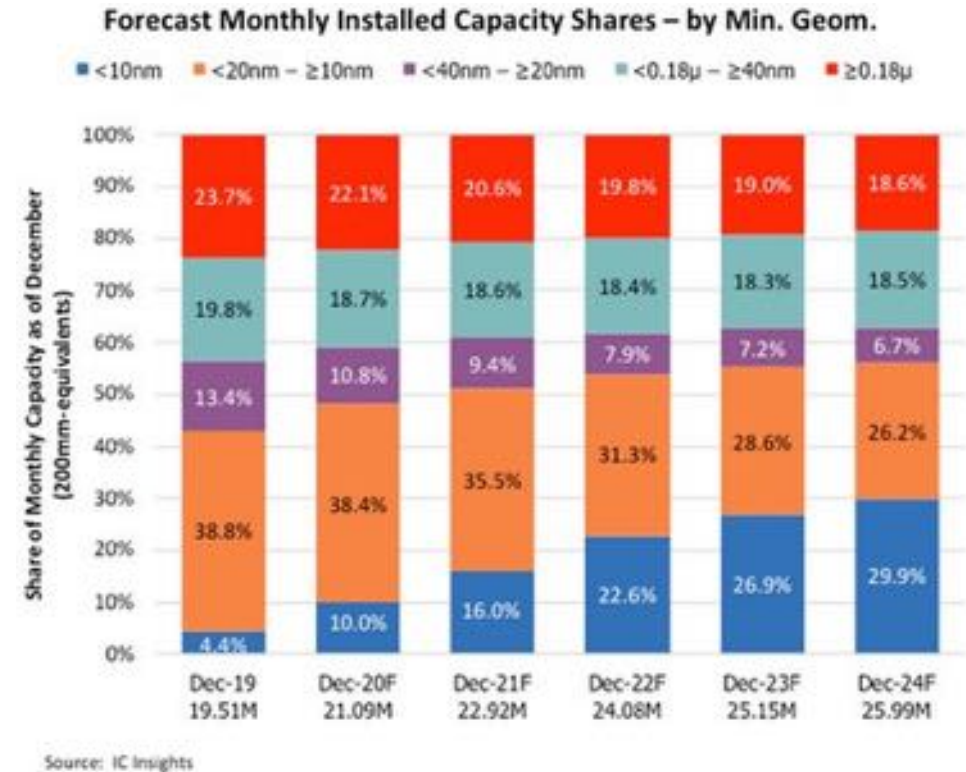


- 19 customers, 25 engagements
- Working with 50% of the world's top semiconductor makers*

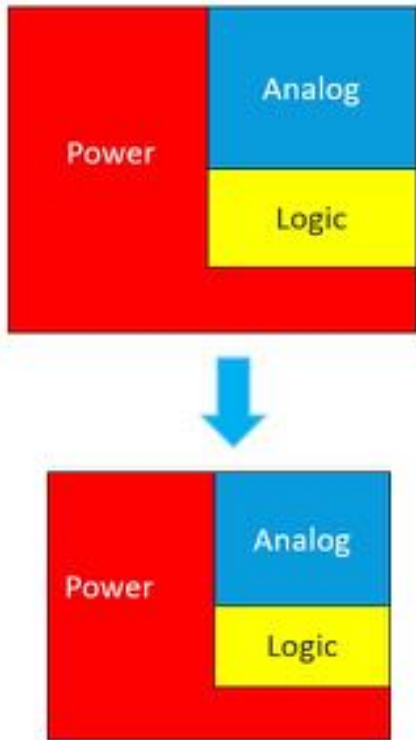
* At least 10 of the top 20 (IC Insights, McClean Report 2021)

Capacity challenge and opportunity

- ▶ **Chip shortages create challenge**
 - Shortages focused on legacy nodes
- ▶ **Legacy nodes made up 52% of production in 2020**
 - 41% at 40nm and below
 - 22% at 0.18u and below
- ▶ **MST provides an option to increase capacity in older production lines**



MST enables legacy capacity expansion



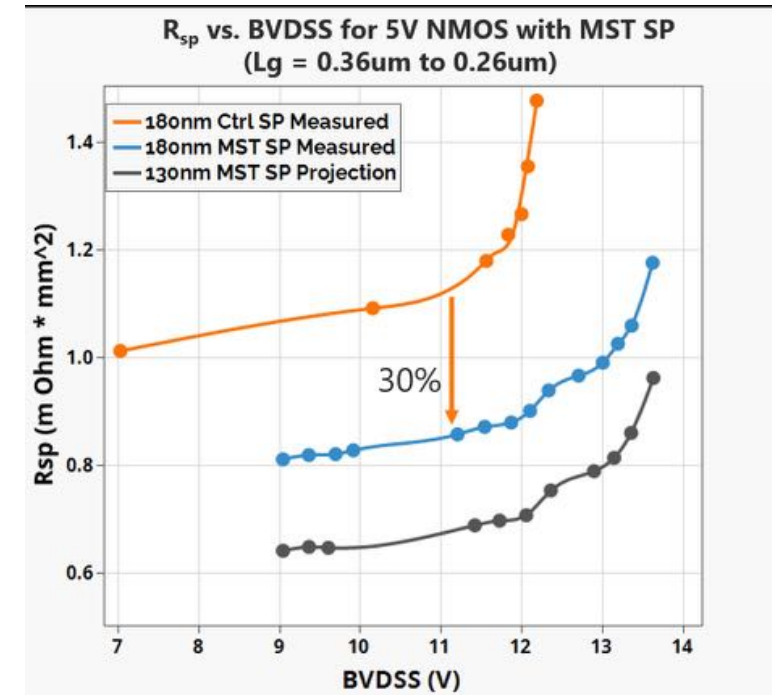
▶ **MST provides 30% performance advantage**

- 0.13u analog design
- MST vs control silicon

▶ **Enables a die shrink of 15-20%**

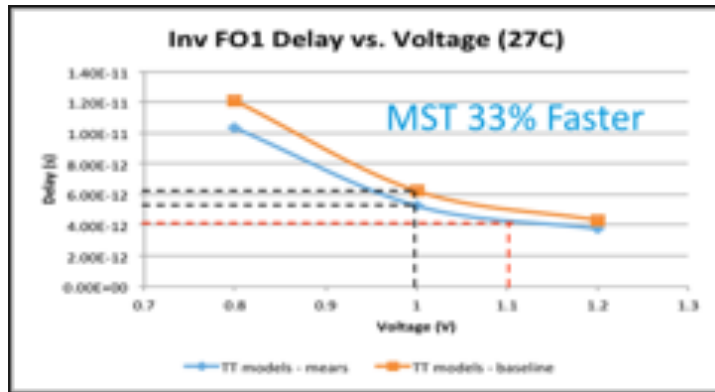
▶ **Smaller die mean more manufacturing capacity**

- Without the cost of building a new fab



MST 28nm benefits

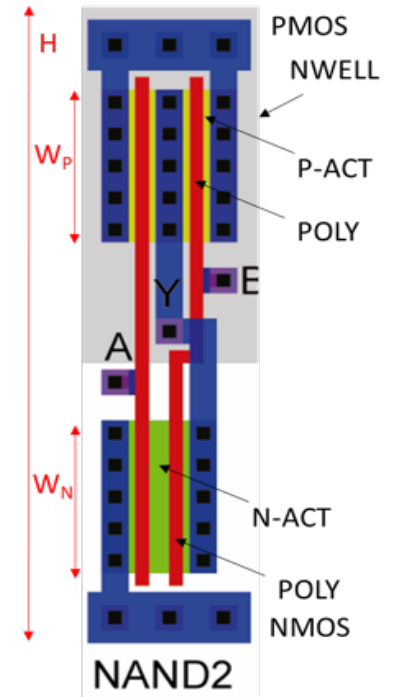
MST shows 30% higher performance



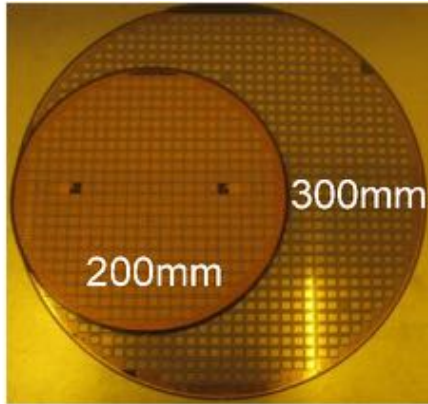
MST performance improvement due to:

- Higher electron mobility
- Improved gate oxide integrity enabling higher overdrive

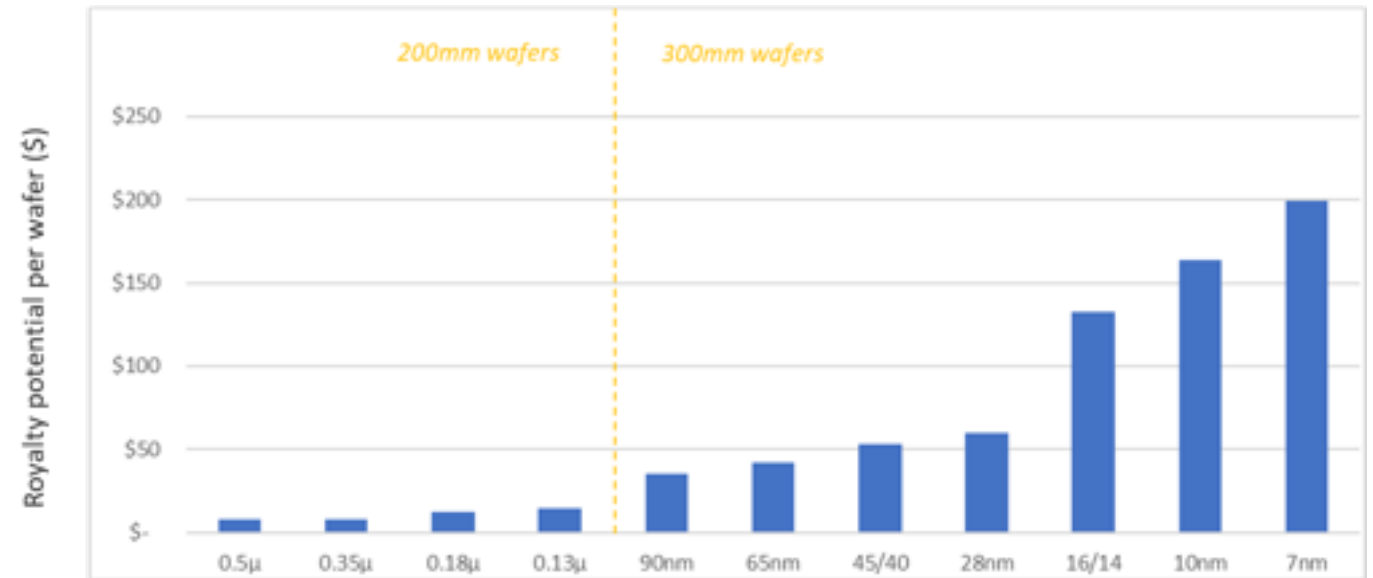
- ▶ **Performance improvements due to MST can be traded for area reduction**
- ▶ **28nm PDK SPICE model used to showcase:**
 - Logic scaling with MST shows 22-25% area reduction
 - Using a NAND2 gate
 - Analog scaling with MST shows up to 21% area reduction
- ▶ **Implementation of MST on new 28nm designs can result in >20% more production capacity**
- ▶ **Allows excellent economic benefits for the whole value chain**



Epi deposition tool



300mm Epi Deposition Tool



Source: The McClean Report - 2019

Financial Review



	Q1 '20	Q2 '20	Q3 '20	Q4 '20	FY 2020	Q1 '21	Balance Sheet 3/31/21	
GAAP Results							Cash	\$36.7M
Revenue	\$0.06M	\$ -	\$ -	\$ -	\$0.06M	\$0.4M	Debt	-
Gross Profit	\$0.05M	\$ -	\$ -	\$ -	\$0.05M	\$0.4M	Shares Outstanding	23.1M
Operating Expense								
R&D	\$2.1M	\$2.1M	\$2.0M	\$2.2M	\$8.4M	\$2.2M		
G&A	\$1.4M	\$1.5M	\$1.3M	\$1.4M	\$5.6M	\$1.5		
S&M	\$0.2M	\$0.2M	\$0.2M	\$0.3M	\$0.9M	\$0.3M		
Total Operating Expense	\$3.7M	\$3.8M	\$3.6M	\$3.9M	\$15.0M	\$4.0M		
Net Loss	(\$3.6M)	(\$3.8M)	(\$3.6M)	(\$3.9M)	(\$14.9M)	(\$3.6M)		
Loss Per Share	(\$0.22)	(\$0.21)	(\$0.19)	(\$0.19)	(\$0.79)	(\$0.16)		
Reconciliation between GAAP & Non-GAAP								
Net Loss (GAAP)	(\$3.6M)	(\$3.8M)	(\$3.6M)	(\$3.9M)	(\$14.9M)	(\$3.6M)		
Stock-Based Compensation	\$0.6M	\$0.8M	\$0.8M	\$0.8M	\$3.0M	\$0.7M		
Warrant Modification	\$0.1M	-	-	-	\$0.1M	-		
Other income (expense)	-	-	-	-	\$0.1M	-		
Adjusted EBITDA (Non-GAAP)*	(\$2.9M)	(\$3.0M)	(\$2.7M)	(\$3.0M)	(\$11.7M)	(\$2.9M)		

Mission Statement

*We collaborate with customers
to improve their products,
through integration of MST,
so that both companies
benefit financially*





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Thank You