

# ADI INVESTOR DAY 2022

### **NOTICES & DISCLAIMERS**

#### FORWARD-LOOKING STATEMENTS

This presentation contains forward-looking statements, which address a variety of subjects including, for example, our statements regarding expected financial goals and results, expected product development, product offerings and technical advances, growth opportunities and anticipated growth, market trends and opportunities, expected customer demand, environmental, social and governance strategy and expectations, including sustainability opportunities and goals, employees and talent, targeted free cash flow returns and capital allocation strategy, and expected benefits and synergies of the acquisition of Maxim Integrated Products, Inc. (Maxim). Statements that are not historical facts, including statements about our beliefs, plans and expectations, are forward-looking statements. Such statements are based on our current expectations and are subject to a number of factors and uncertainties, which could cause actual results to differ materially from those described in the forward-looking statements. The following important factors and uncertainties, among others, could cause actual results to differ materially from those described in these forward-looking statements: the uncertainty as to the extent of the duration, scope and impacts of the COVID-19 pandemic; political and economic uncertainty, including any faltering in global economic conditions or the stability of credit and financial markets; erosion of consumer confidence and declines in customer spending; unavailability of raw materials, services, supplies or manufacturing capacity; changes in geographic, product or customer mix; changes in export classifications, import and export regulations or duties and tariffs; changes in our estimates of our expected tax rates based

on current tax law; adverse results in litigation matters, including the potential for litigation related to the acquisition of Maxim; the risk that we will be unable to retain and hire key personnel; unanticipated difficulties or expenditures relating to integrating Maxim; uncertainty as to the long-term value of our common stock; the diversion of management time on integrating Maxim's business and operations; our ability to successfully integrate acquired businesses and technologies, including Maxim; and the risk that expected benefits, synergies and growth prospects of acquisitions, including our acquisition of Maxim, may not be fully achieved in a timely manner, or at all. For additional information about factors that could cause actual results to differ materially from those described in the forward-looking statements, please refer to our filings with the Securities and Exchange Commission, including the risk factors contained in our most recent quarterly report on form 10-Q and annual report on form 10-K. Forward-looking statements represent management's current expectations and are inherently uncertain. Except as required by law, we do not undertake any obligation to update forward-looking statements made by us to reflect subsequent events or circumstances.

#### NON-GAAP RECONCILIATIONS

This presentation includes non-GAAP financial measures that have been adjusted in order to provide investors with information regarding our results of operations, business trends and financial goals. Reconciliation of these non-GAAP measures to their most directly comparable GAAP measures can be found in the appendix.



### AGENDA

8:30am	Welcome   Presenter: Michael Lucarelli
	ADI: Where Data is Born   Presenter: Vince Roche
	Instrumentation & Test   Presenter: Karim Hamed
	Industry 4.0   Presenter: Jen Lloyd
	Future of Digital Healthcare   Presenter: Patrick O'Doherty
	Next Gen Communications   Presenter: Greg Henderson, PhD
	Automotive Electrification & Experience   Presenter: Patrick Morgan, PhD
	Q&A Panel: Secular Trends Panelists: Karim Hamed, Greg Henderson, PhD, Jen Lloyd, Patrick Morgan, PhD, Patrick OʻDoherty
11:05am	Long-term Growth Built on Customer Success   Presenter: Anelise Sacks
	Hybrid Manufacturing Strategy   Presenter: Vivek Jain
	New Financial Model   Presenter: Prashanth Mahendra-Rajah
	Q&A Panel: Strategy & Financials Panelists: Vince Roche, Prashanth Mahendra-Rajah
1:10pm	Customer Demo Showcase

### **ADI: WHERE DATA IS BORN**



VINCE ROCHE CEO & CHAIR

#### HERE'S WHAT WE'LL COVER TODAY

- ADI is built to stand the test of time given our commitment to superior innovation & intense customer collaboration
- ADI has a tremendous opportunity ahead ... our deep & broad high performance portfolio is well-aligned with key secular growth trends
- Our long-term vision is to move up the technology stack to build & empower the intelligent edge



### ADI EXISTS TO SOLVE OUR CUSTOMERS' MOST COMPLEX PROBLEMS



HIGHEST PERFORMANCE PRODUCT PORTFOLIO

Portfolio spanning microwave to bits, nanowatts to kilowatts, sensor to cloud

#1 in analog & mixed signal, #1 in RF, #2 in power



#### DIVERSE CUSTOMERS, APPLICATIONS & MARKETS

~75K SKUs; average product life 10+ years

125K+ customers; no end customer >5% of revenue

~86% of revenue from B2B applications



INNOVATIVE, CUSTOMER-CENTRIC CULTURE

~11K engineers

~\$1.7B annual R&D spend<sup>1</sup>

Customers value ADI as a trusted, long-term focused, strategic partner



#### RESILIENT HYBRID MANUFACTURING & GO-TO-MARKET MODEL

Solutions from 7 nanometers to 7 microns

Global network with >50 production sites

Hybrid direct, digital, channel go-to-market model



#### INDUSTRY-LEADING FINANCIAL PROFILE

Adjusted gross margin 70%+& operating margin 45%+<sup>2</sup>

FCF margin<sup>2</sup> in top 10% of S&P  $500^3$ 

>\$11B shareholder returns over decade

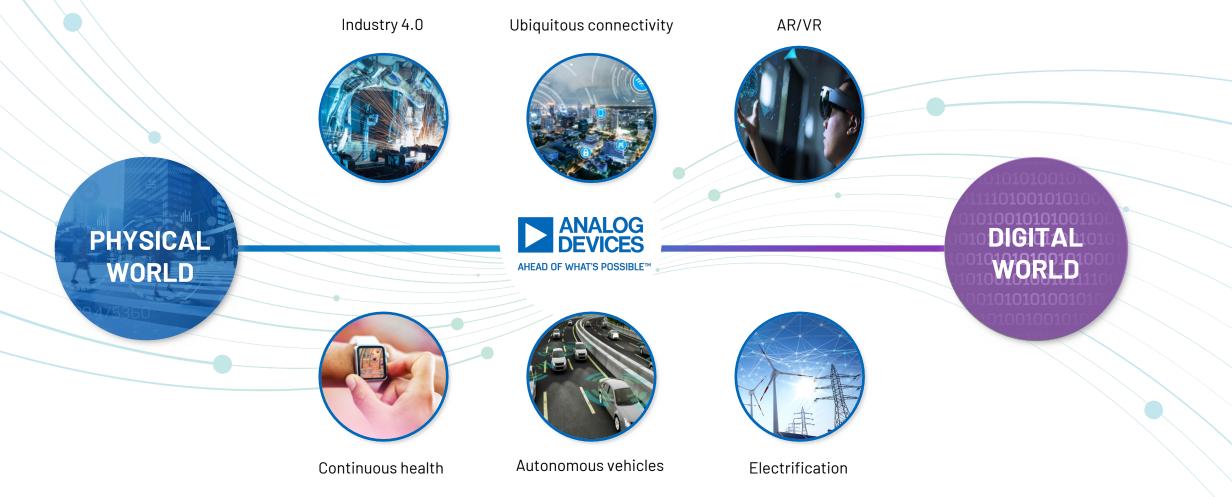
#### A high quality, enduring technology company with strong financial performance



1. 1022 annualized

 ADI's adj. gross margin, adj. operating margin & FCF margin are presented on an adjusted basis & exclude special items. Please refer to the appendix for a reconciliation of these adjusted measures to their most comparable GAAP measures.
 S&P 500 index data sourced from Bloomberg.

### ADI BRIDGING THE PHYSICAL & DIGITAL WORLDS TO EMPOWER THE INTELLIGENT EDGE





### CONTINUING TO DRIVE HIGH PERFORMANCE ANALOG LEADERSHIP

Spanning microwave to bits, nanowatts to kilowatts, sensor to cloud

#### **COMMITMENT TO INVESTMENT**





FY13 to FY22E.
 Excludes Maxim Integrated.

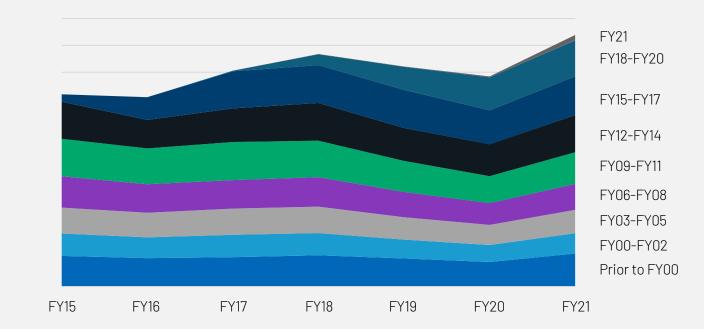


#### LEADING ANALOG PORTFOLIOS



#### **INCREDIBLY STICKY & DIVERSE REVENUE**<sup>2</sup>

~50% of ADI revenue is derived from products 10+ years old



### ON A PATH TO DELIVER STRONG REVENUE GROWTH

#### POSITION OF STRENGTH



Market-leading analog franchise



Converting record opportunity pipeline



Capturing revenue synergies



Expanding SAM with complete solutions



Strengthening value capture

LONG-TERM REVENUE CAGR

**FROM FY22E OF** ~\$11.2B<sup>1</sup>

#### CONCURRENT SECULAR GROWTH DRIVERS



Industry 4.0

Digital healthcare



C

Next-gen connectivity



Vehicle electrification & in-cabin experience



Sustainable energy



Augmented & virtual reality



### **TRUSTED STRATEGIC PARTNER FOR OUR CUSTOMERS**



1. 1022 annualized

AHEAD OF WHAT'S POSSIBLE

**ADI POSITIONED TO CAPITALIZE WITH SCALE** 



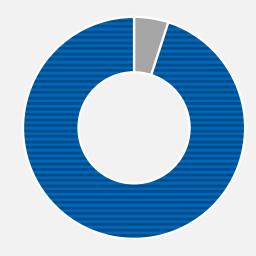
~10%

**Engineers** focused on software & systems solutions

COMBINED **ANNUAL R&D SPEND**<sup>1</sup> ~\$1.7B

GLOBAL

~11K

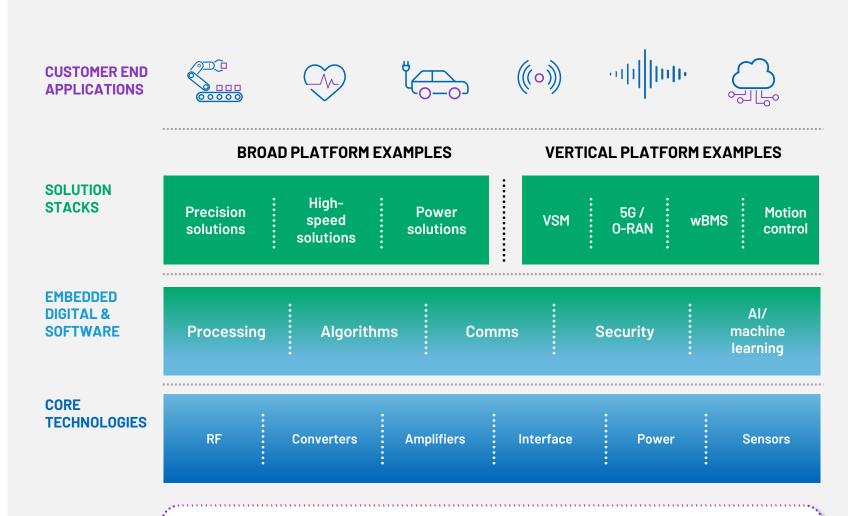


~95% Targeted on most attractive B2B opportunities

# EMPOWERING THE INTELLIGENT EDGE

Insight & actions moving closer to the physical world edge

> MOVING UP THE STACK



Leveraging ADI's technology & domain intelligence to deliver more complete solutions

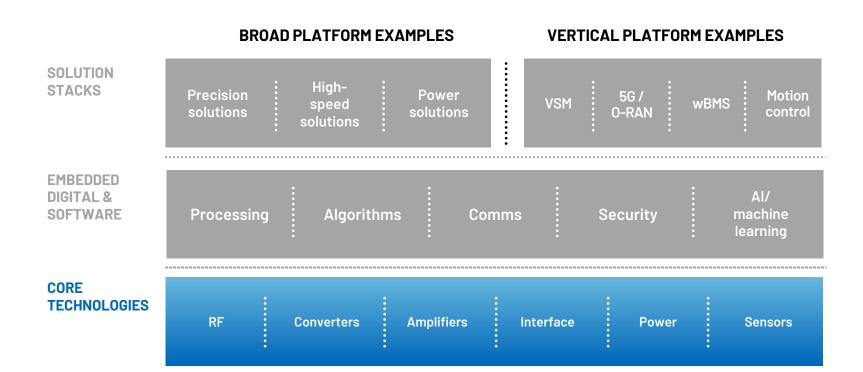


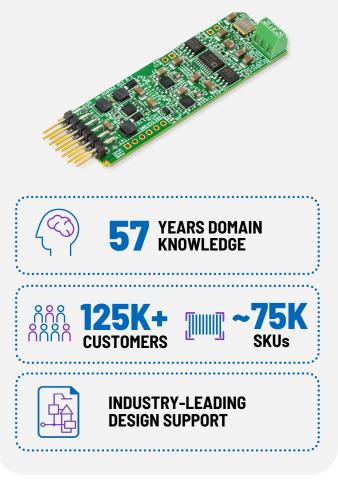
### **EMPOWERING THE INTELLIGENT EDGE**

Broad high performance core portfolio to solve every customers' signal chain & power challenge

#### GROWING THE CORE PORTFOLIO

11



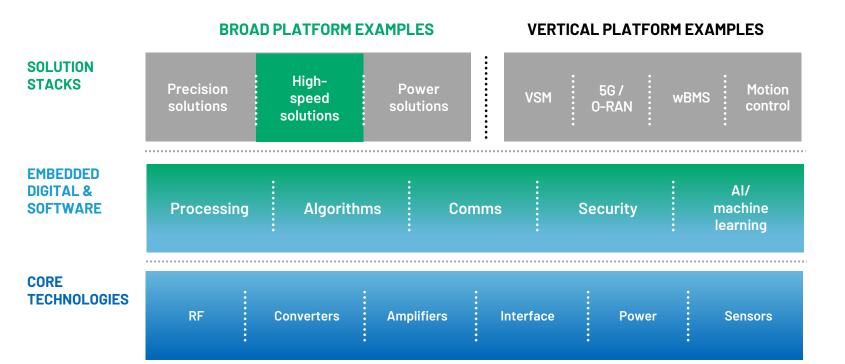


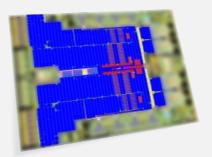


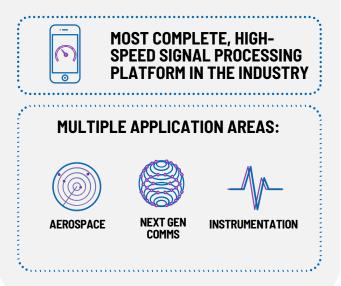
### **EMPOWERING THE INTELLIGENT EDGE**

Taming complexity in the broad market through flexible, software-defined signal processing platforms





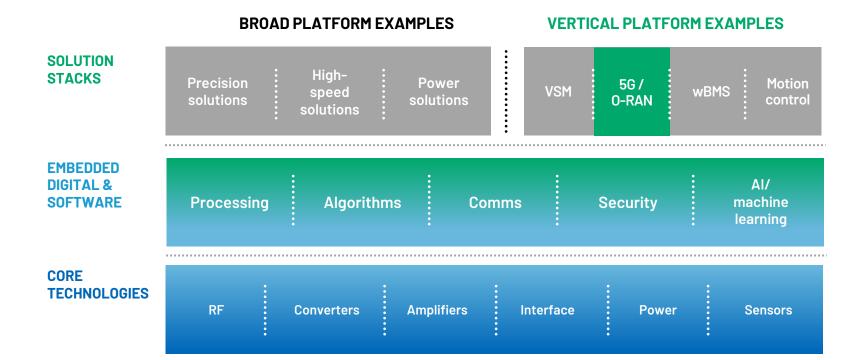






### **EMPOWERING THE INTELLIGENT EDGE**

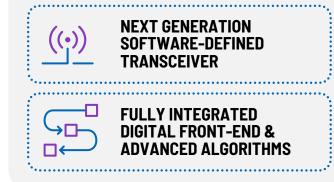
Delivering complete solutions for customers in vertical end markets



#### **KERBEROS**

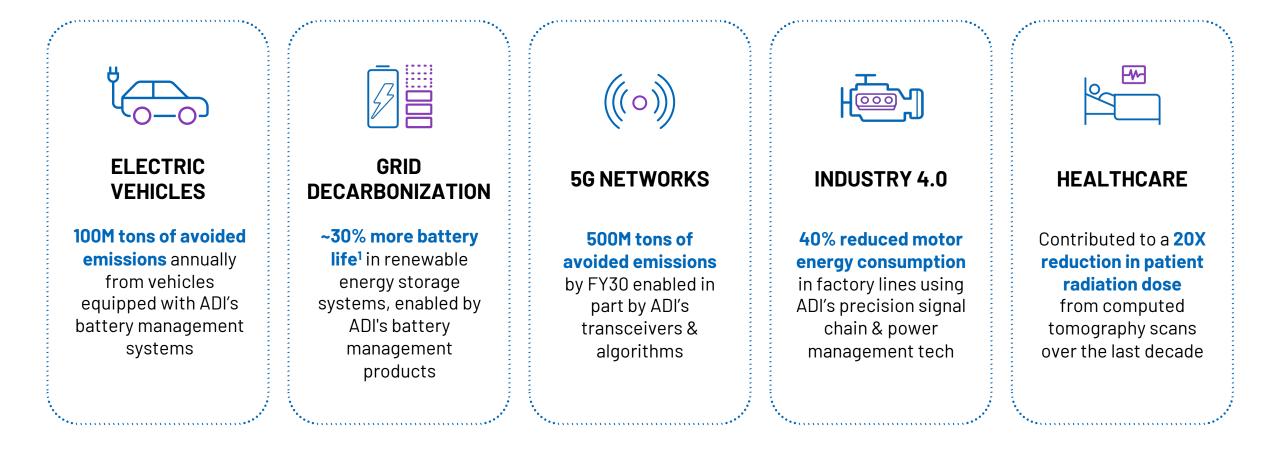
First to market complete O-RAN compliant radio unit platform







### **CONNECTING PURPOSE WITH GROWTH**





### LONG-TERM VISION

Empowering the Intelligent Edge through the world's most innovative analog, digital, & software solutions Driving growth & profitability by solving our customers' & society's toughest challenges

ANALOG DEVICES



### **INSTRUMENTATION & TEST**



#### **KARIM HAMED**

VP, INSTRUMENTATION & TEST

### HERE'S WHAT WE'LL COVER TODAY

- Instrumentation & test is a performance-driven market requiring ADI's most advanced technology & solutions
- Comprehensive portfolio of components, application specific products & system solutions with thousands of customers & SKUs sold into different industries
- Alignment with secular growth drivers & increasing technology complexity, driving significant growth opportunities



### INSTRUMENTATION & TEST SNAPSHOT



### **REVENUE**<sup>1</sup>

Market leader in high performance signal chains across precision, micromodule power, high-speed, & RF

- **20,000+** customers
- ~30,000 SKUs
- Gross & operating margins above corporate average







#### AUTOMATED TEST EQUIPMENT (ATE)

~40% OF REVENUE

Semiconductor Portable devices System level test

# ELECTRONIC TEST & MEASUREMENT (ETM)

~**30%** OF REVENUE

Wireless & optical Battery formation Automotive



#### SCIENTIFIC INSTRUMENTS

~30% OF REVENUE

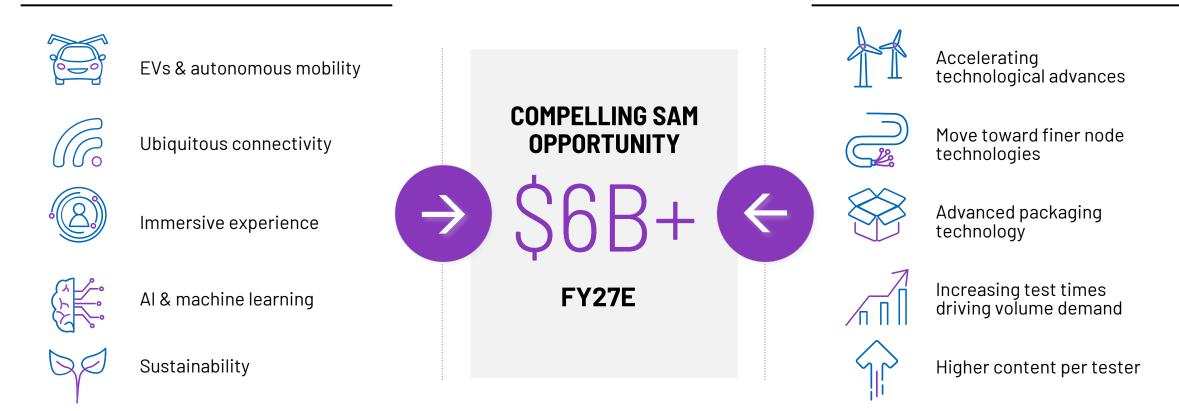
Life sciences Environmental monitoring Geological exploration



### **CAPTURING OPPORTUNITY PRESENTED BY INCREASED COMPLEXITY**

#### ALIGNED WITH SECULAR GROWTH MARKETS

#### INCREASING TECHNOLOGY COMPLEXITY



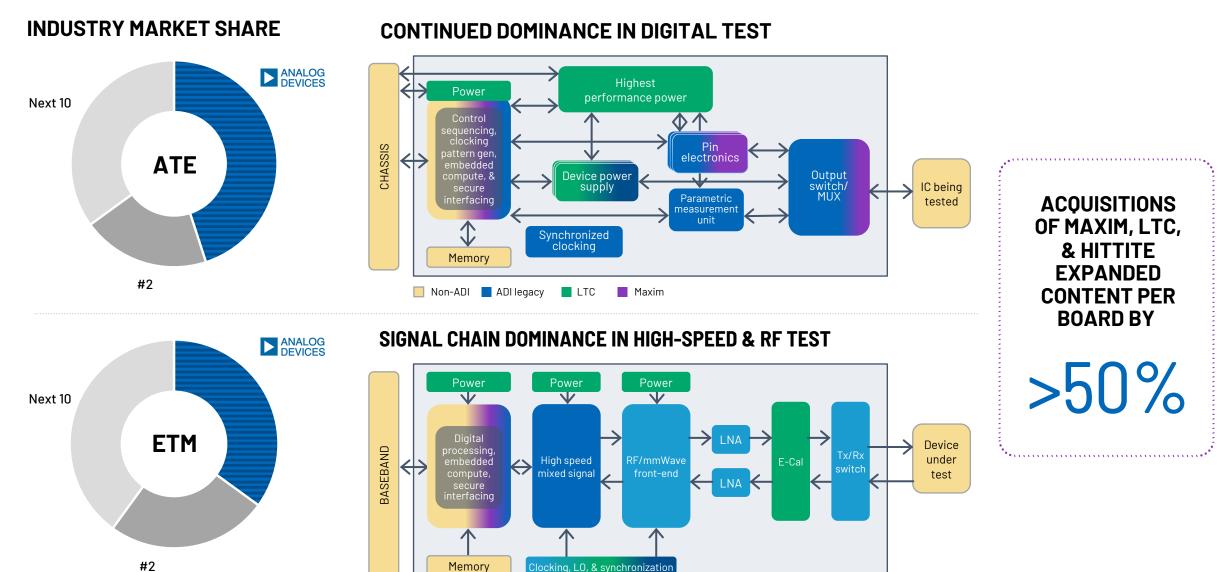
ANALOG DEVICES

### **INCREASING ADI CONTENT WITH DIVERSE PORTFOLIO**

Non-ADI ADI legacy

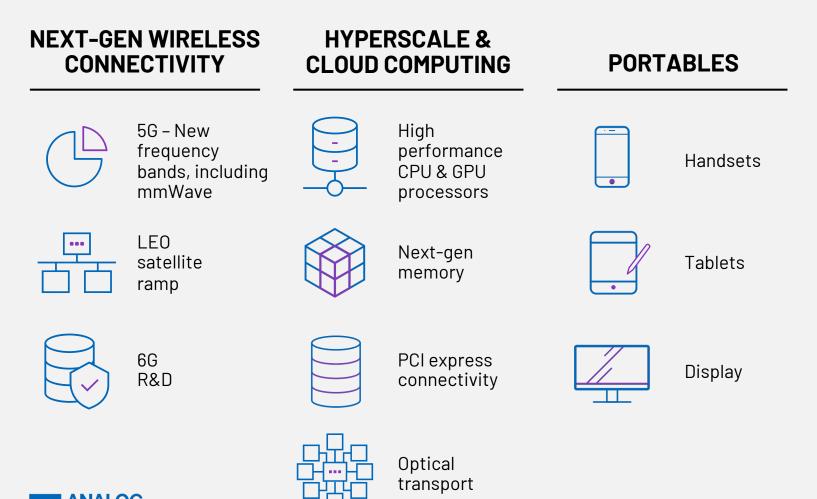
LTC

Maxim Hittite



19

### COMMUNICATIONS & COMPUTING TEST... ADI IS AN ESTABLISHED LEADER



AHEAD OF WHAT'S POSSIBLET

comms test sam \$1.6B fy27e

#### ADI'S INNOVATIONS SOLVE INCREASING SYSTEM COMPLEXITY:

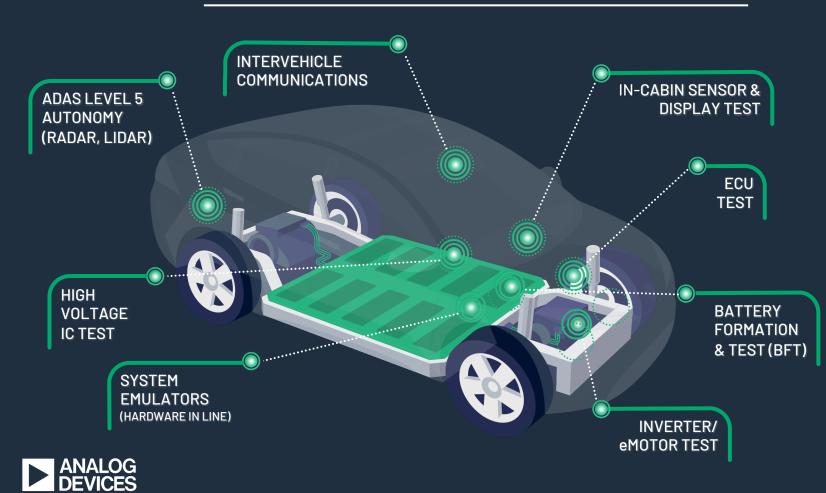
- 4x channel density
- Increased **throughput**
- Maintains test time parity



### AUTOMOTIVE & BATTERY TEST... ADI IS AN EMERGING LEADER

AHEAD OF WHAT'S POSSIBLE<sup>T</sup>

#### CAR OF TOMORROW: MAIN TEST AREAS

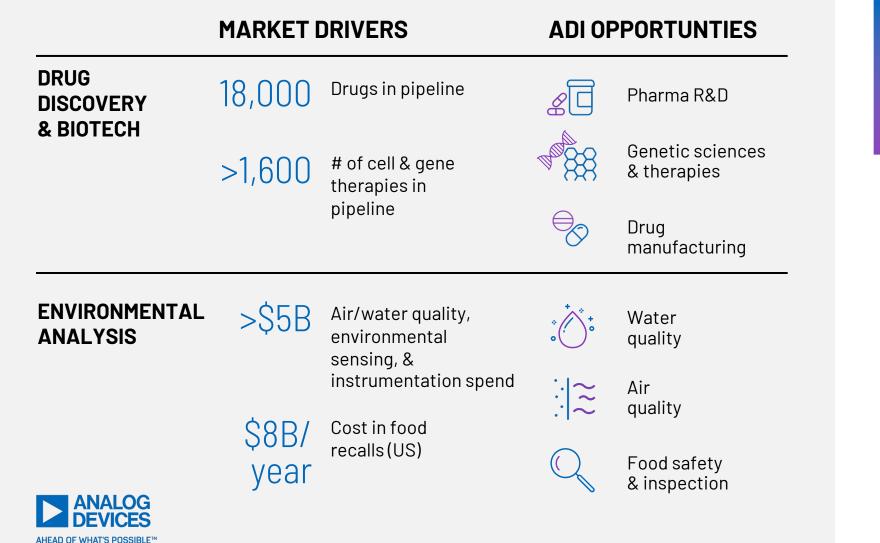


AUTO TEST SAM \$1B +3x vs. ICE fy27e

#### BFT SUSTAINABILITY BENEFITS

- Enable factories to recycle 80%+ of energy used during formation back into the power grid
- Based on today's production levels, energy recycling during formation reduces CO<sub>2</sub> output by 1M annual tons

### HUMAN HEALTH & SUSTAINABILITY TEST... ADI IS AN EMERGING PLAYER



SCIENTIFIC SAM \$1.5B FY27E

#### SUSTAINABILITY BENEFITS

- ADI technology is enabling actionable insights for air quality through highly reliable & accurate instruments
- ADI's ultra-high precision converters enable 10x greater resolution in measurements of fine particulate matter to better prevent adverse effects of trace pollutants on human & planetary health

### SUMMARY

- Instrumentation is a highly diversified market aligned with secular growth trends
- ADI is differentiated by its high performance solutions, leveraging a complete product portfolio
- Applications are increasingly complex, requiring higher test content... major growth opportunity for ADI

~\$1.4B

#### **5-YEAR CAGR: 15%+**

- Next-gen connectivity: processor/GPU/memory cloud compute, optical transport
- Automotive: battery formation, EV powertrain, ADAS
- Biotech & environmental analysis

FRANCHISE

GROWTH

INSTRUMENTATION & TEST REVENUE<sup>1</sup>

### **INDUSTRY 4.0**



JEN LLOYD

VP, INDUSTRIAL PLATFORMS

#### HERE'S WHAT WE'LL COVER TODAY

- Breadth of core Industrial portfolio, spanning across industries, & secular growth trends
- Growing faster than the market due to increasing content & newer systems... enabling & accelerating the transition to digital connected enterprise
- #1 in factory automation... focusing on factory digitalization & sustainability



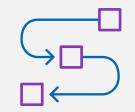
### AUTOMATION OVERVIEW



# **REVENUE**<sup>1</sup>

#### Leading analog position

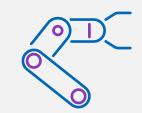
- **15,000+** customers
- **~30,000** SKUs
- 15-20 year lifecycles
- Domain expertise & deep insight



PROCESS CONTROL

~**55%** OF REVENUE

Accelerate transition to a trusted industry 4.0 Enterprise with digital connectivity



CONNECTED MOTION & ROBOTICS

> ~**30%** OF REVENUE

Drive higher productivity, safer industrial robots & cobots



25

#### INTELLIGENT BUILDINGS

~15% OF REVENUE

Enable higher productivity Safe & green buildings





### SECULAR TRENDS DRIVING DIGITIZATION OF FLOOR



#### PATH TO NET ZERO

- Efficiencies needed to drastically reduce carbon footprints
- Industry investments in EVs have increased 41% over the last year<sup>1</sup>



#### RESHORING

 90% of US executives said they are planning to move out of Asia<sup>2</sup>



#### LABOR SHORTAGES

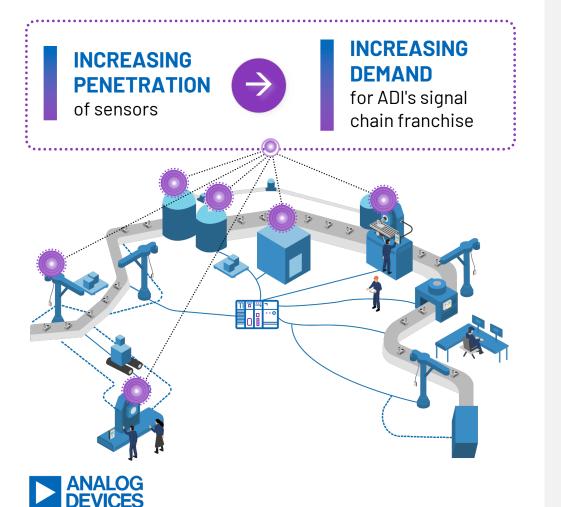
 Over the last decade, the growth of non-working-age population has outpaced the growth of the working-age population in the US<sup>3</sup>

2027E SAM **MORE SENSORS**, **INCREASING TO** EDGE PROCESSING, \$6B+ **CONNECTIVITY, ROBOTICS** 



Alix Partners "2021 Global Automotive Outlook", Jun 2021.
 UBS Global Research Feb 2022.
 US Census Bureau "Working-Age Population Not Keeping Pace With Growth in Older Americans", Jun 2020.

### DIGITIZING THE FACTORY FLOOR: SENSORS & EDGE PROCESSING



#### ADI'S MARKET LEADING PRECISION SIGNAL CHAIN



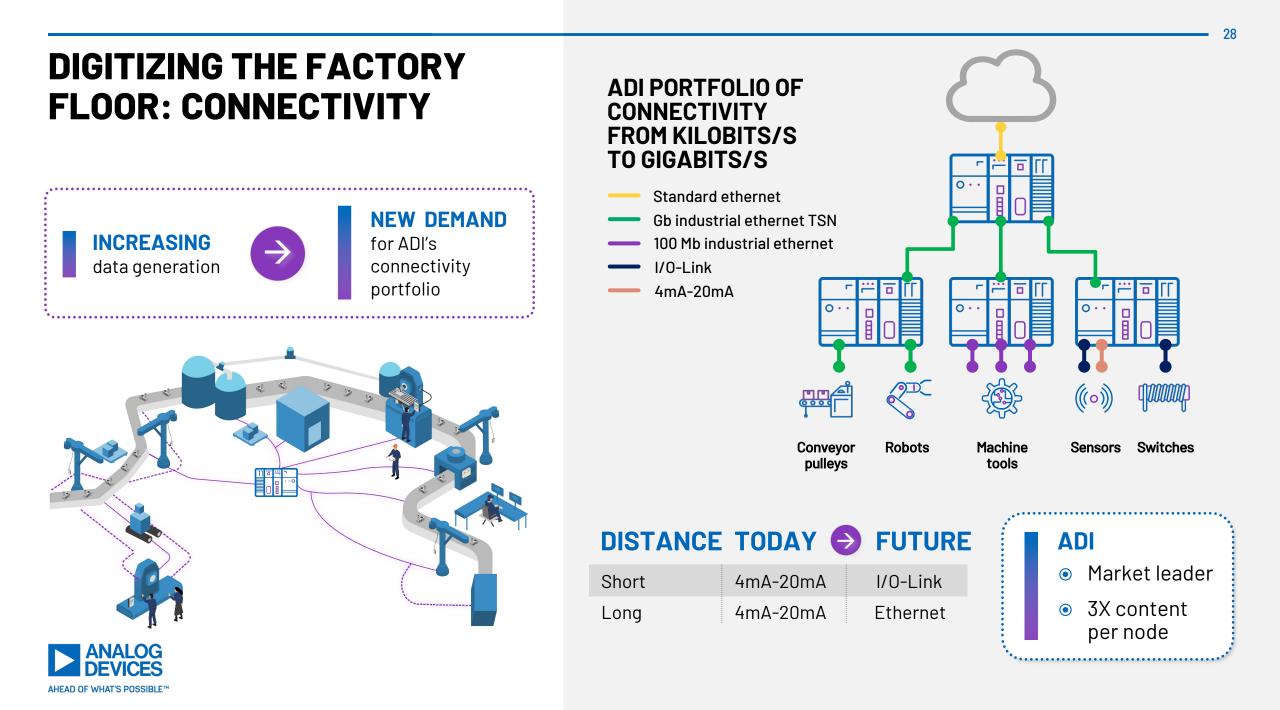
#### **CUSTOMER EXAMPLE**

#### **35 components**

Sensors, amplifiers, converters, interface, power, & processing

#### **POSITIVE IMPACT**

- 30% higher productivity in robotic milling
- Increase accuracy by 40%
- Power efficiency increases battery life by 80%



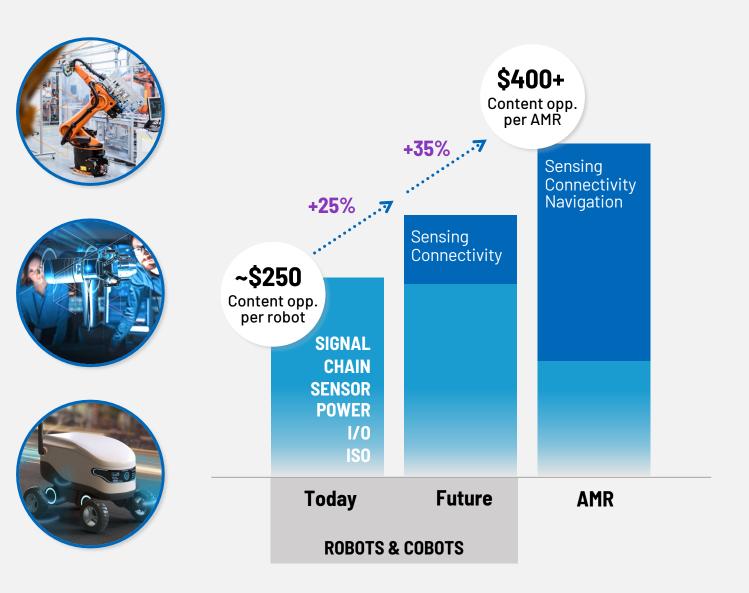
# **ROBOTICS: GROWTH IN VOLUME & CONTENT**

#### **ROBOTS & COBOTS**

- Utilizes the entire franchise portfolio
  - 50-100 SKUs per robot/cobot
- Use of industrial robots in manufacturing industries has doubled in the last 5 years<sup>1</sup>
- Digitization of factory floor driving new connectivity & sensing content

#### AUTONOMOUS MOBILE ROBOTS (AMR)

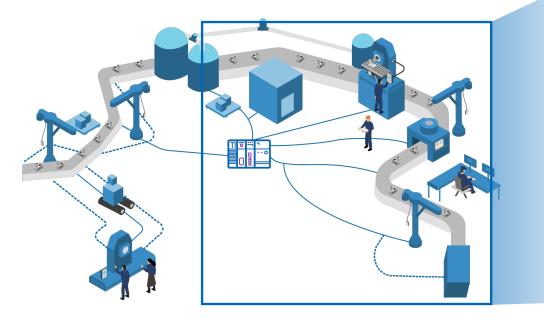
- Builds on strong franchise & customer position
- Forecasted to increase 6X in next 5 years<sup>2</sup>
- New content from sensing, connectivity, & navigation



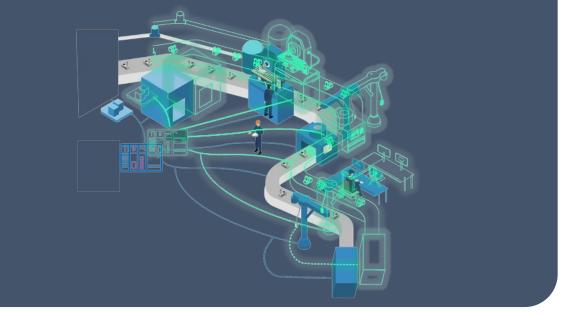


### EFFICIENCY & PRODUCTIVITY: DIGITAL TWIN

#### LIVE FACTORY FLOOR



#### DIGITAL TWIN LIVE MODEL OF THE FACTORY FLOOR



Increased sensors, end-to-end ethernet, & edge processing enable digital replica updated in real-time



#### 1. ADI internal estimate

#### **NEW OPPORTUNITIES**

- Enterprise level efficiencies through advanced modelling
- Total digital twin market is under \$10B today & double-digit growth to over \$70B by FY28<sup>1</sup>

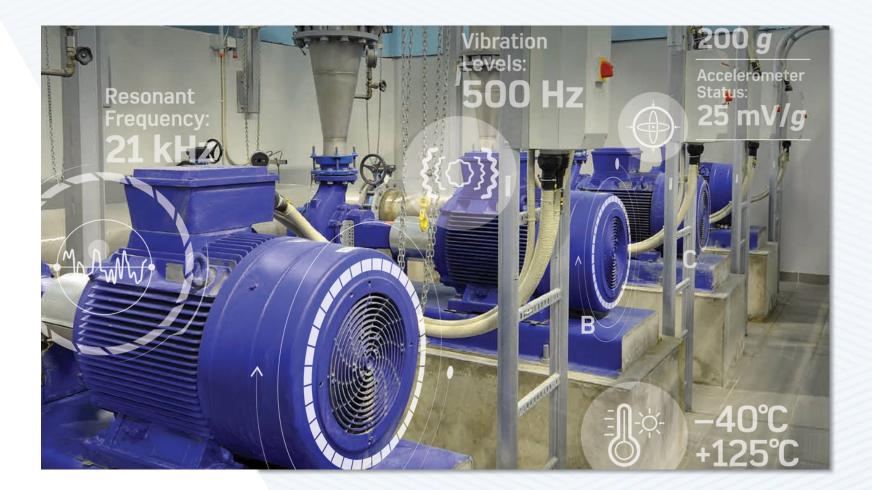
### **CONDITION-BASED MONITORING (CbM)**

#### **MARKET TRENDS**

- Predictive maintenance can enable 10% reduction in maintenance costs & 20% reduction in downtime
- Significantly reduces customer development risk

#### **NEW OPPORTUNITES**

- Incremental edge sensors create new signal chain content need
- Edge-based analytics can reduce power consumption by 98% vs. comparable cloudbased solution





### SUMMARY

- Strong position in the complex Industrial Automation business
- Secular trends are driving digitization
- Franchise benefits from the digitization trend
- New applications are emerging benefitting ADI

FRANCHISE

GROWTH



AUTOMATION REVENUE<sup>1</sup>

#### 5-YEAR CAGR: 15%+

- Robots & cobots
- AMR
- Smart instruments
- Connectivity
- CbM



### FUTURE OF DIGITAL HEALTHCARE



### **PATRICK O'DOHERTY**

SVP, DIGITAL HEALTHCARE

### HERE'S WHAT WE'LL COVER TODAY

- ADI's digital healthcare evolution, market position, & growth outlook
- Industry landscape including challenges & secular trends
- Complementarity & enhanced capabilities with Maxim, enabling exciting growth opportunities



### DIGITAL HEALTHCARE OVERVIEW

~\$800M

### 

Market leader in medical imaging, medical instrumentation, & vital signs monitoring

- **5,000+** customers
- Margins above corporate average
- Unmatched capabilities, **\$100M+** of ASSP solutions revenue



1. 1022 annualized.



MEDICAL Imaging

~**30%** OF REVENUE

Computed Tomography (CT) Magnetic Resonance Imaging (MRI) Positron Emission Tomography (PET) Digital X-Ray Ultrasound







MEDICAL INSTRUMENTATION

> ~35% OF REVENUE

Patient support Surgical tools Implantables Therapeutics In-vitro diagnostics





34



#### VITAL SIGNS MONITORING (VSM)

**~35%** OF REVENUE

Electrocardiogram (ECG) Photoplethysmography (PPG) Bedside Glucose Monitoring Continuous Glucose Monitoring

GE Healthcare



(Roche)

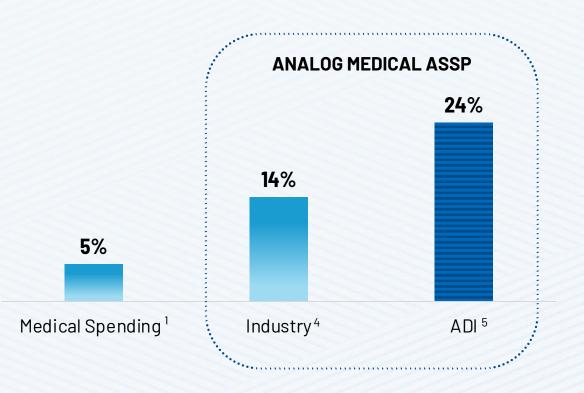
### TECHNOLOGY INNOVATION REQUIRED FOR A BETTER HEALTH ECOSYSTEM

#### **HEALTHCARE MARKET TRENDS**

- US spent ~\$4T on healthcare in FY21 or ~20% of GDP vs. <15% of GDP 20 years ago<sup>1</sup>
- Healthcare spend expected to outpace GDP going forward driven by aging population<sup>1</sup>
- 90% of healthcare costs associated with chronic disease & illness<sup>2</sup>
- 6 out of 10 Americans with chronic conditions<sup>3</sup>

#### HEALTHCARE'S DIGITALIZATION ACCELERATING

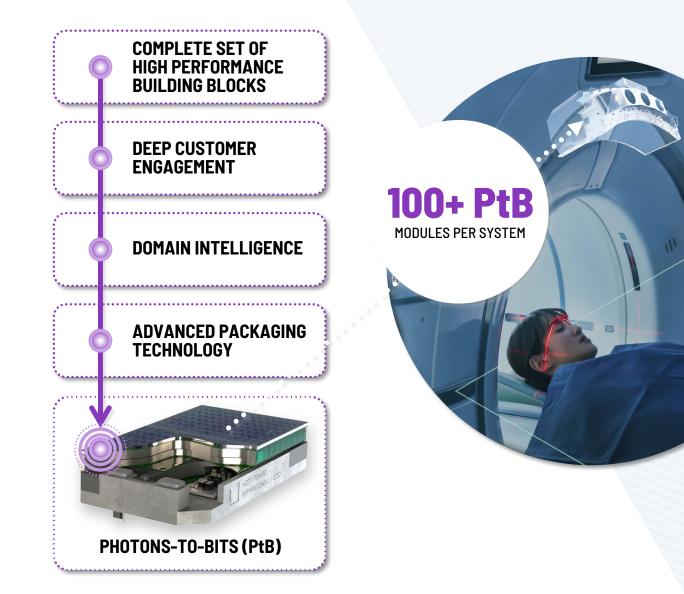
5-YEAR CAGR (FY16-FY21)





4. Semiconductor Industry Association.5. ADI internal estimate.

### **MEDICAL IMAGING: #1 MARKET SHARE IN CT & DIGITAL X-RAY**



#### **PtB ECOSYSTEM BENEFITS**

- **Patient**: Reduces radiation dosage & provides the highest quality images
- Customer: Lowers cost, shrinks footprint, improves performance, & accelerates time to market
- **ADI**: 4x SAM vs. component-based solution, raises barriers to entry



#### **COMING SOON**

#### **ECHO-TO-BITS** enabling handheld ultrasound



# **MEDICAL INSTRUMENTATION: LEADING SHARE POSITION ACROSS A WIDE ARRAY OF APPLICATIONS**











Defibrillators

Infusion pumps

Insulin pumps

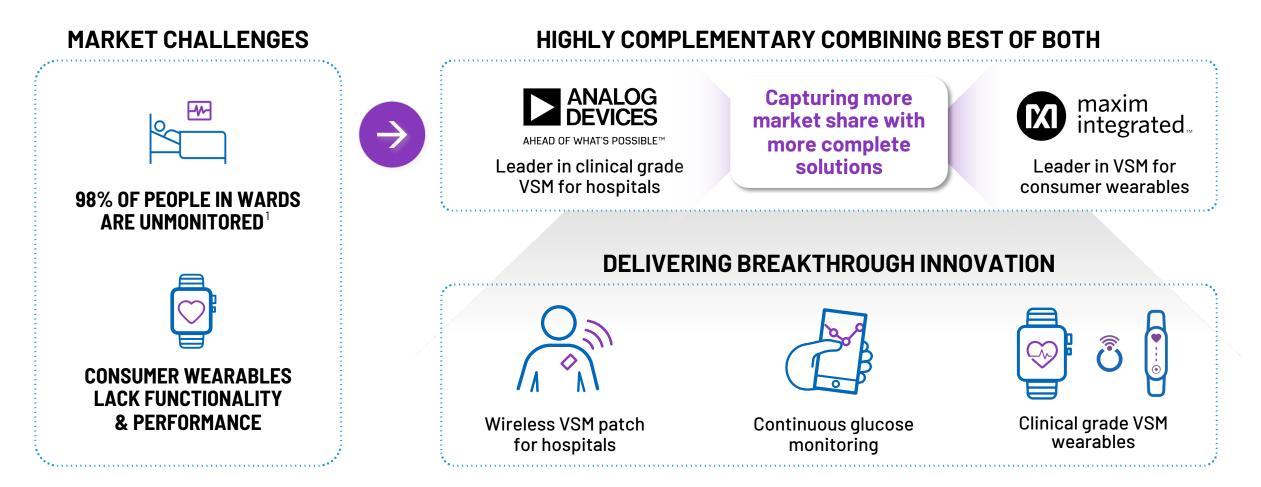
Diagnostics

**Ventilators** 

# **DEFEND & EXTEND HIGH PERFORMANCE PRECISION**, **HIGH-SPEED, & POWER IC** POSITION



# **VSM: LEADING SHARE POSITION IN CLINICAL GRADE** & WELLNESS WEARABLES





38

# DEVELOPING END-TO-END MEDICAL PRODUCTS

EXPANDS 2027E SAM BY \$5B+

- Combination of hardware, software, cloud connectivity, data analytics, & service
- Established ecosystem partnerships
- Targeting first product launch within 12-18 months

### ADI SYSTEM SOLUTION TARGETING SPECIFIC CHRONIC DISEASES

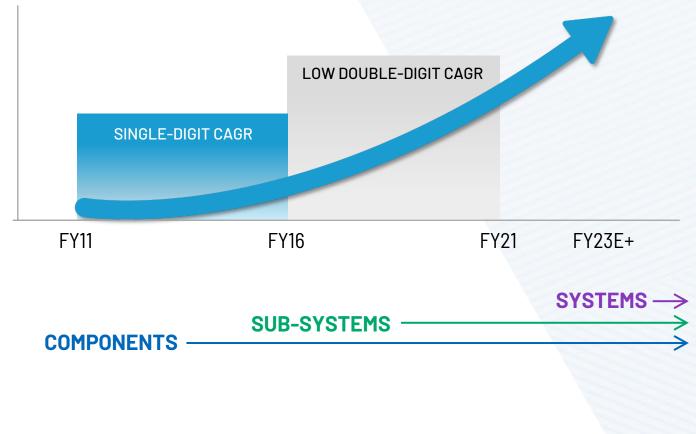


Proactively managing chronic disease patients with ADI's technology & intervening early can save lives & 10s of thousands of dollars per patient per year



# **ADI'S ADVANCE TO SUB-SYSTEMS IGNITING GROWTH**

# FY22 TRACKING TO 7TH STRAIGHT RECORD YEAR<sup>1</sup>



# **SYSTEMS** Further increases SAM by adding software & analytics SUB-SYSTEMS Increases SAM up to 4x vs. components through unique integration techniques **COMPONENTS** Defends & extends broad customer & application share with unrivaled breadth & performance

Maxim leadership in wellness wearables & ASSP power expertise enhances solution capabilities from components to systems



40

# SUMMARY

- Digitalization accelerating across instrumentation, imaging, & wearables
- Serving wide range of applications requires portfolio breadth, high performance, & domain intelligence
- ADI & Maxim's combined capabilities strengthening market leadership & driving SAM expansion

FRANCHISE

GROWTH

DIGITAL HEALTHCARE REVENUE<sup>1</sup>

**SO.8**B

# 5-YEAR CAGR: 20%+

- Medical wearables
- Wireless VSM for hospitals
- Echo-to-bits
- Chronic disease management systems

# **NEXT GEN COMMUNICATIONS**



# **GREG HENDERSON, PHD**

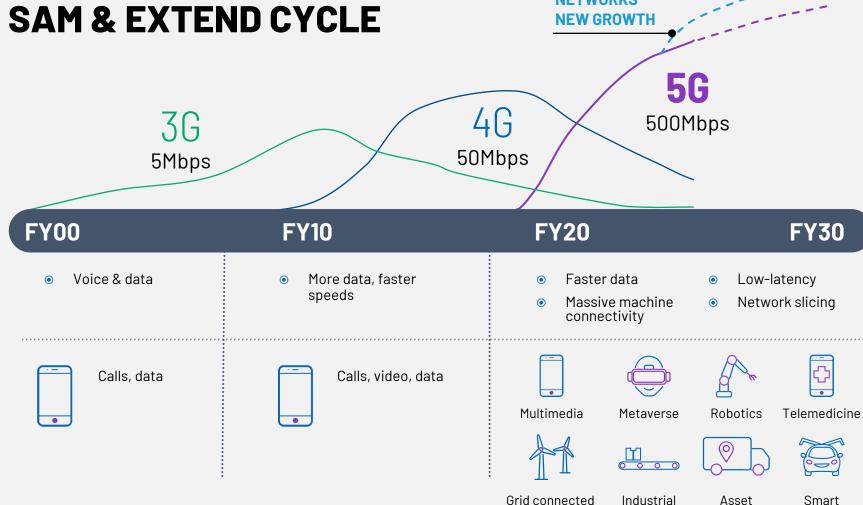
SVP, AUTOMOTIVE & ENERGY, COMMUNICATIONS & AEROSPACE GROUP



# HERE'S WHAT WE'LL COVER TODAY

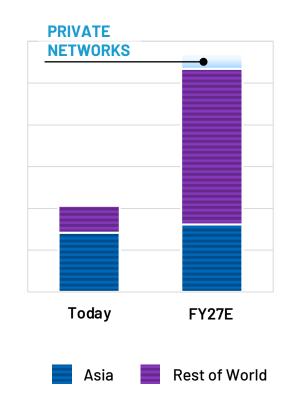
- Market share leader in radio signal chains for wireless infrastructure
- Explosive growth ahead driven by global rollout of 5G & proliferation of private networks
- O-RAN gaining traction & will be a tailwind for the industry & ADI

# 5G DEPLOYMENTS ACCELERATING... NEW APPLICATIONS EXPAND SAM & EXTEND CYCLE



# **5G PENETRATION**

Next wave of growth driven by global deployments



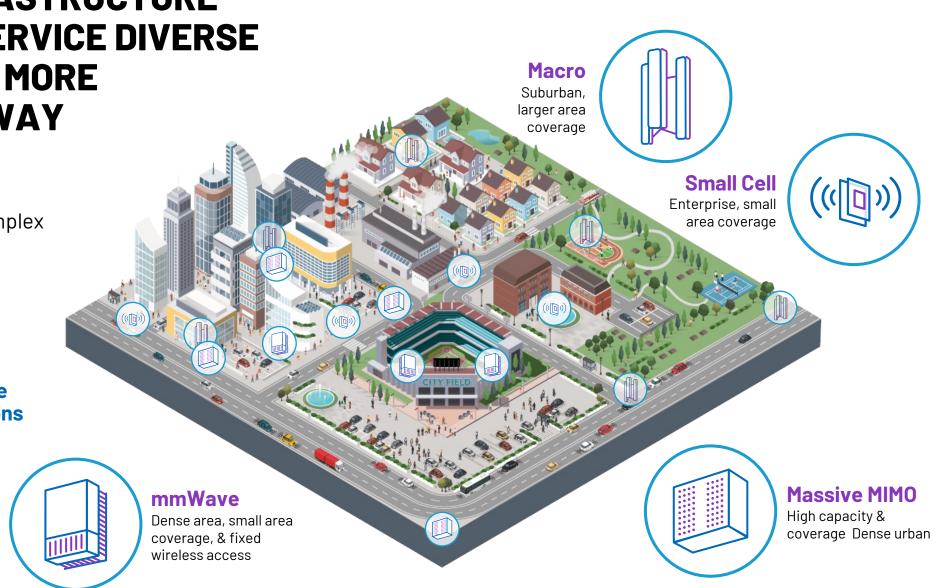


renewable energy automation tracking

# NETWORK INFRASTRUCTURE EVOLVING TO SERVICE DIVERSE USE CASES IN A MORE SUSTAINABLE WAY

- Radio multiband & co-location create complex RF challenges
- Power consumption & sustainability a major challenge for carriers

# ADI's flexible architecture serves all 5G configurations

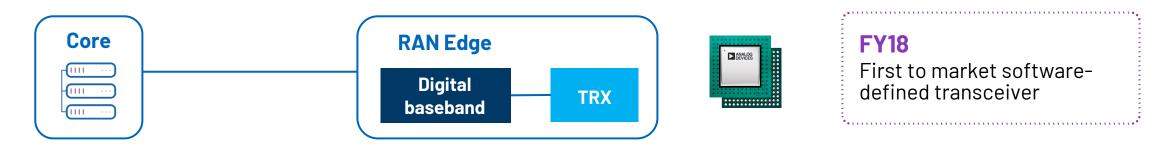


44



# **NETWORK EVOLUTION OF 5G**

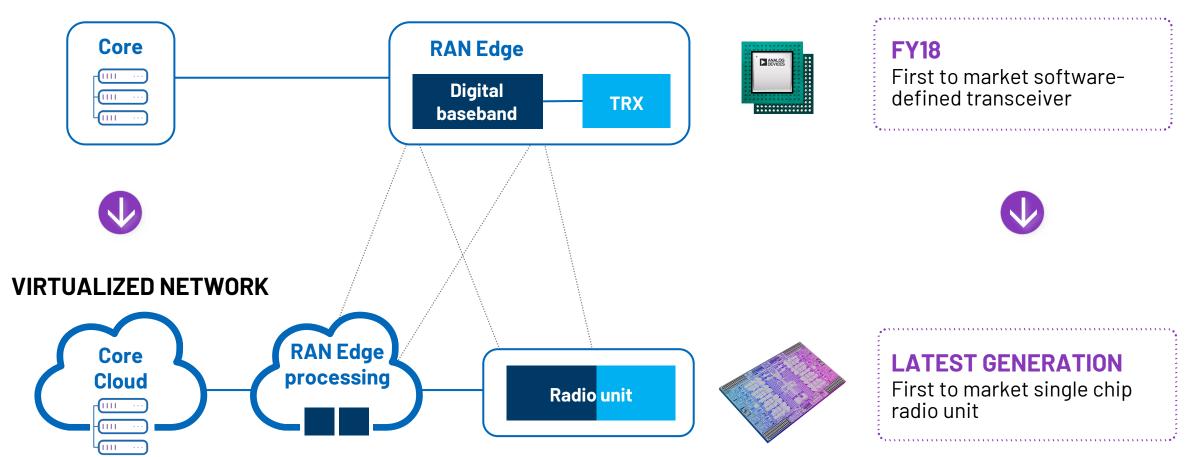
# **TRADITIONAL NETWORK**





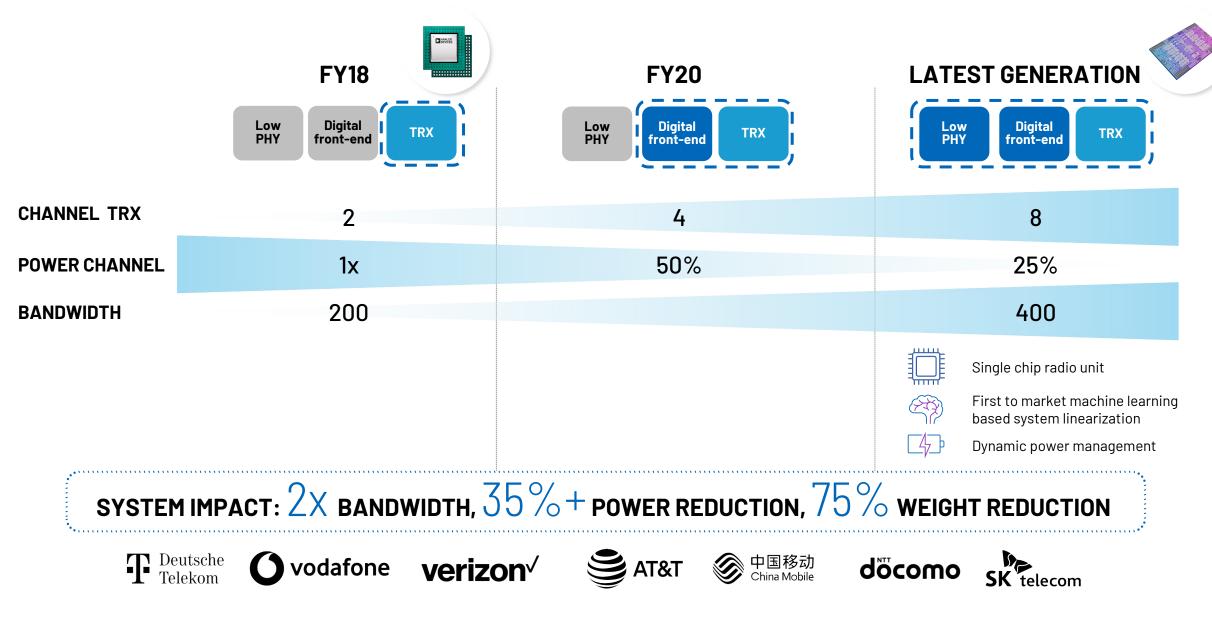
# **NETWORK EVOLUTION OF 5G - VIRTUALIZATION**

# **TRADITIONAL NETWORK**

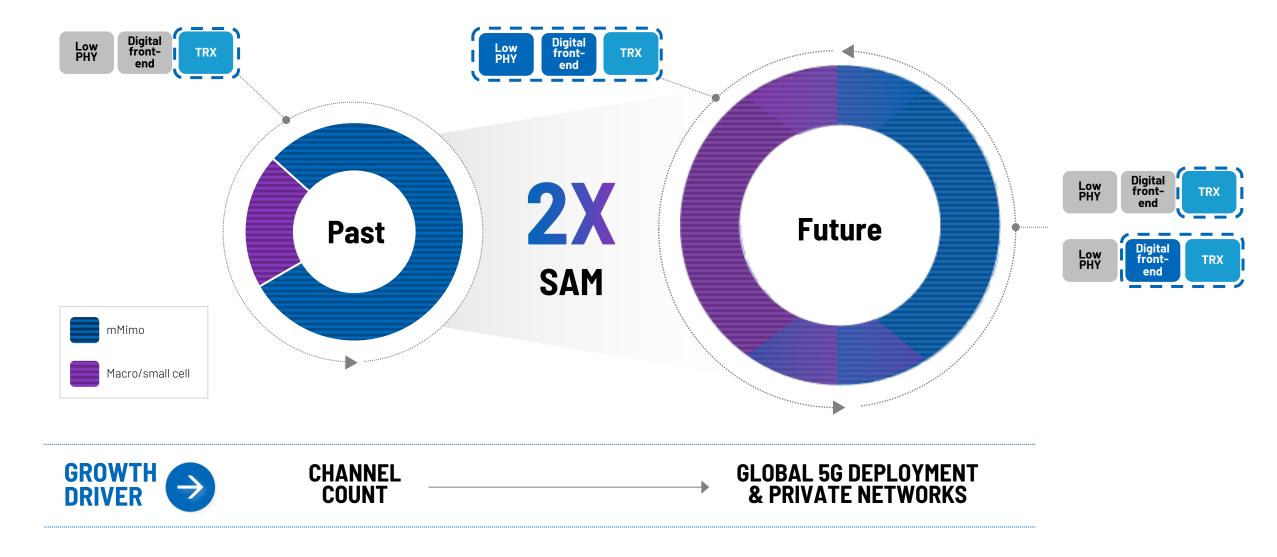




# **ADI TECHNOLOGY ENABLING 5G EVOLUTION**

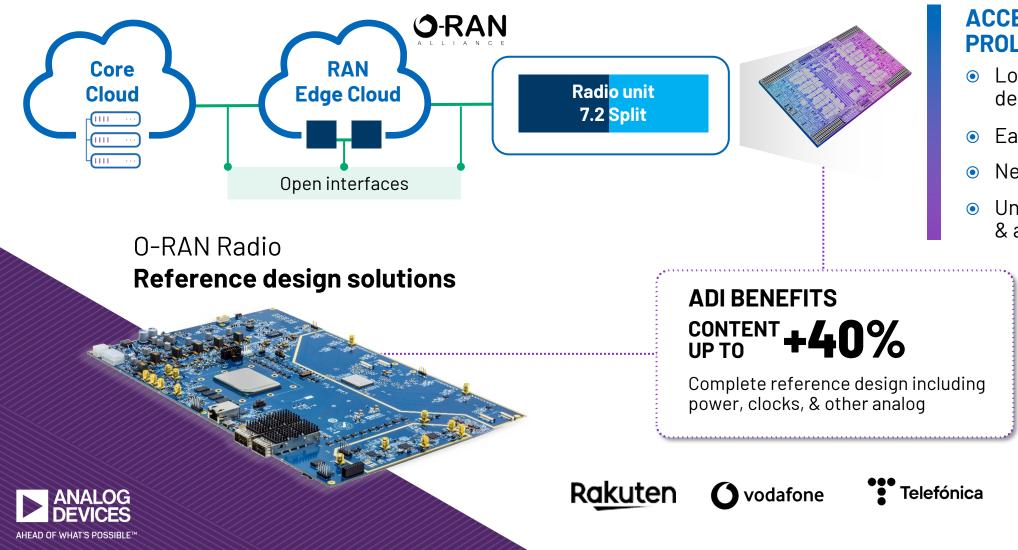


# ADI PORTFOLIO TO DELIVER GROWTH ACROSS ALL 5G CONFIGURATIONS & PRIVATE NETWORK DEPLOYMENTS



# **TECHNOLOGY LEVERAGE TO O-RAN NETWORKS**

Next gen transceiver perfect match for O-RAN networks

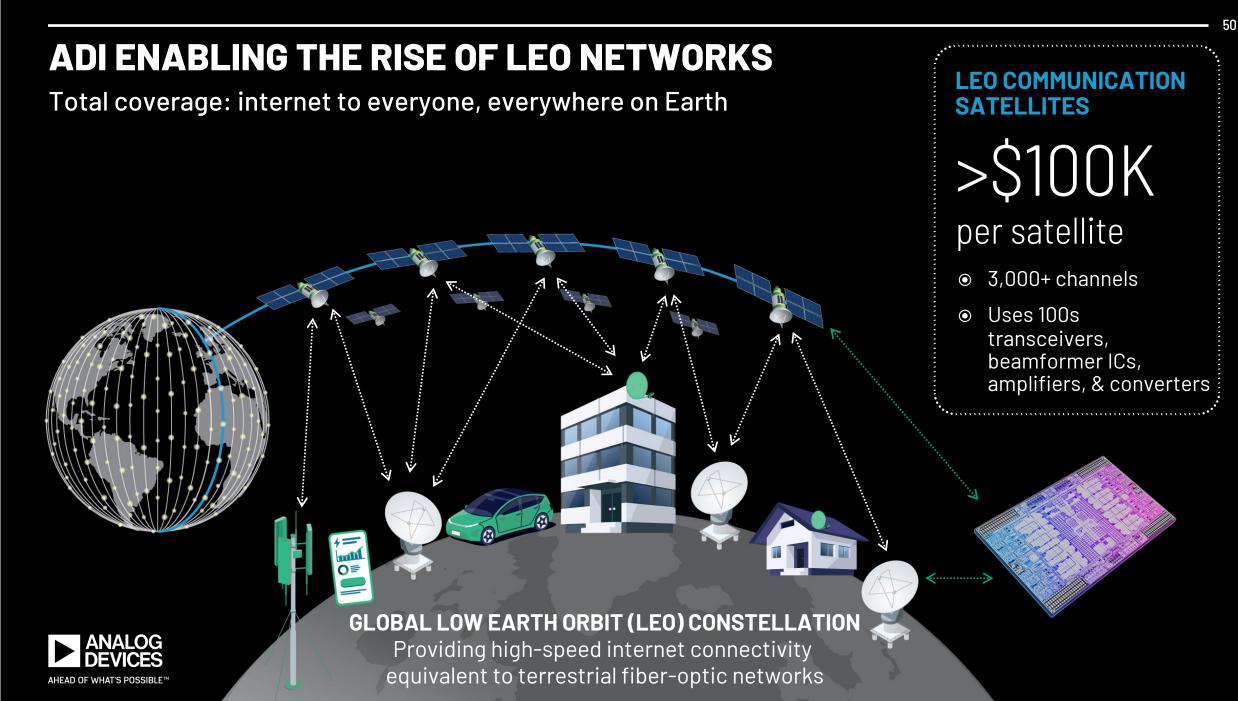


# ACCELERATE & PROLIFERATE 5G

- Lower cost of deployment
- Easier to upgrade
- New entrants
- Unlock new networks & applications

Deutsche

Telekom



# SUMMARY

- 5G is in early innings & will be a longer cycle
- ADI's latest generation platforms enabling 5G:
  - Digital integration simplifies radio unit design
  - Enables O-RAN & private networks
  - More than doubles SAM

~\$1B

# GROWTH

3G/4G

BACKHAUL OTHER RF

# 5-YEAR CAGR: 20%+

- Traditional 5G networks
- Private networks
- O-RAN
- LEO communications

WIRELESS & SPACE REVENUE



# **AUTOMOTIVE ELECTRIFICATION** & EXPERIENCE



# PATRICK MORGAN, PHD

VP, AUTOMOTIVE ELECTRIFICATION & SUSTAINABLE ENERGY

# HERE'S WHAT WE'LL COVER TODAY

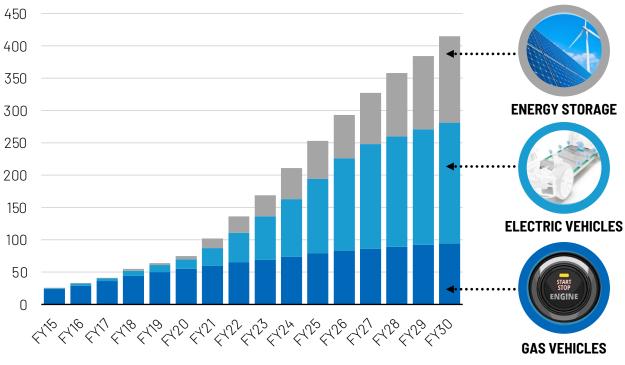
- ADI's technology is making a positive planetary scale impact in electrification & experience
- Market & technology leader in battery management systems (BMS), audio processing, data & video connectivity, & automotive power
- Growing leadership across the sustainable energy ecosystem



# **ADI MAKING A POSITIVE IMPACT** ELECTRIFICATION 40

yearly savings of CO<sub>2</sub> from systems using ADI electrification technology

# **TONS OF CO<sub>2</sub>**



**EXPERIENCE** 

Automotive cabin transforming & enriching people's lives



will be equipped with A<sup>2</sup>B in first decade of production



of GMSL on the road today



ADI connectivity saves in first decade of production

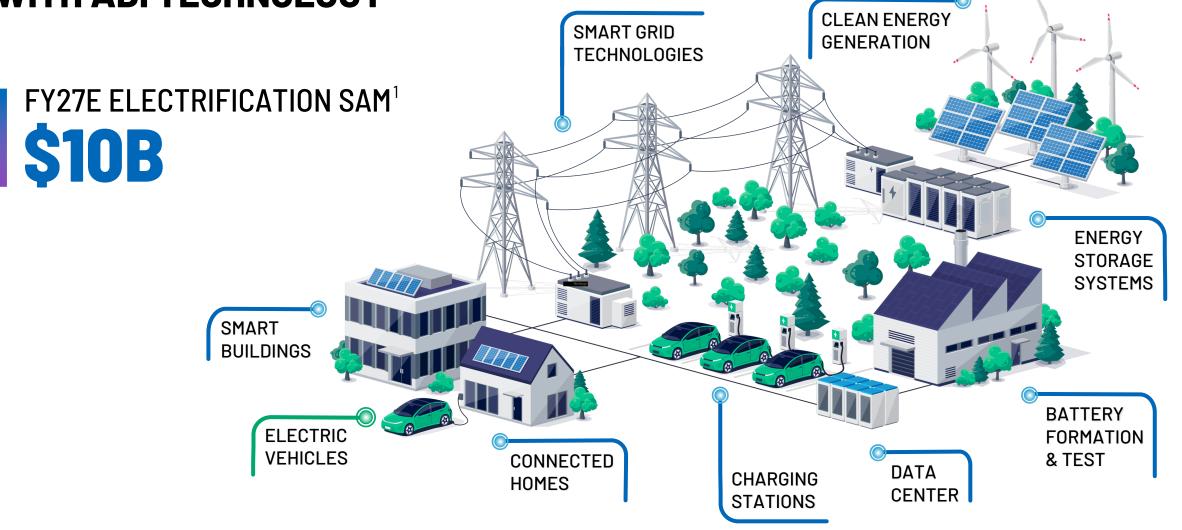


ADI connectivity saves in first decade of production

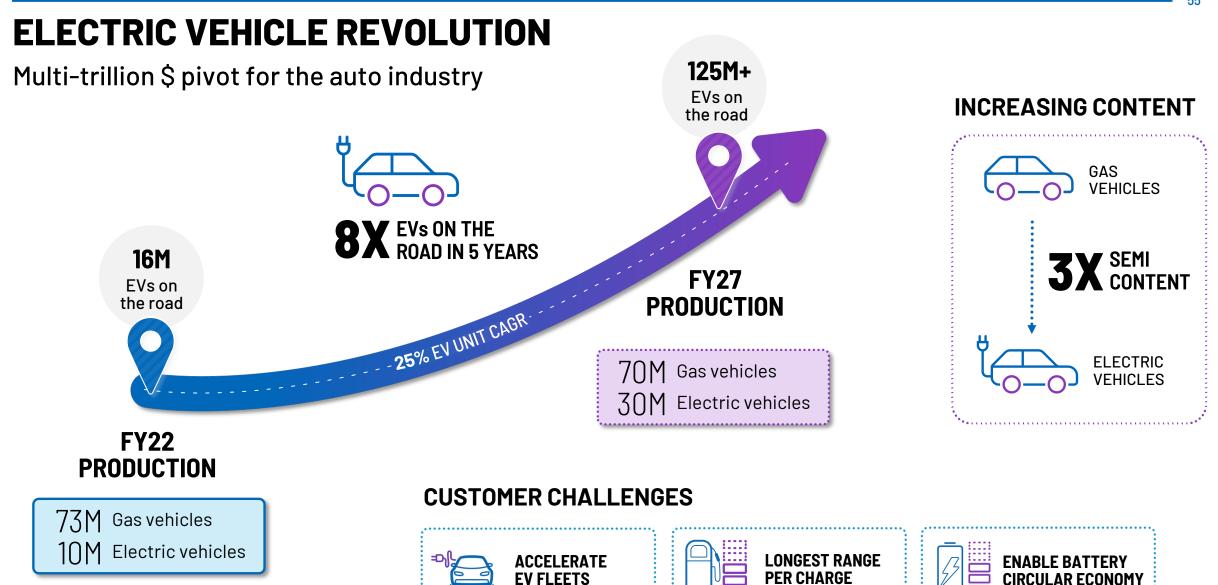


AHEAD OF WHAT'S POSSIBLE

# ACCELERATING NET ZERO WITH ADI TECHNOLOGY

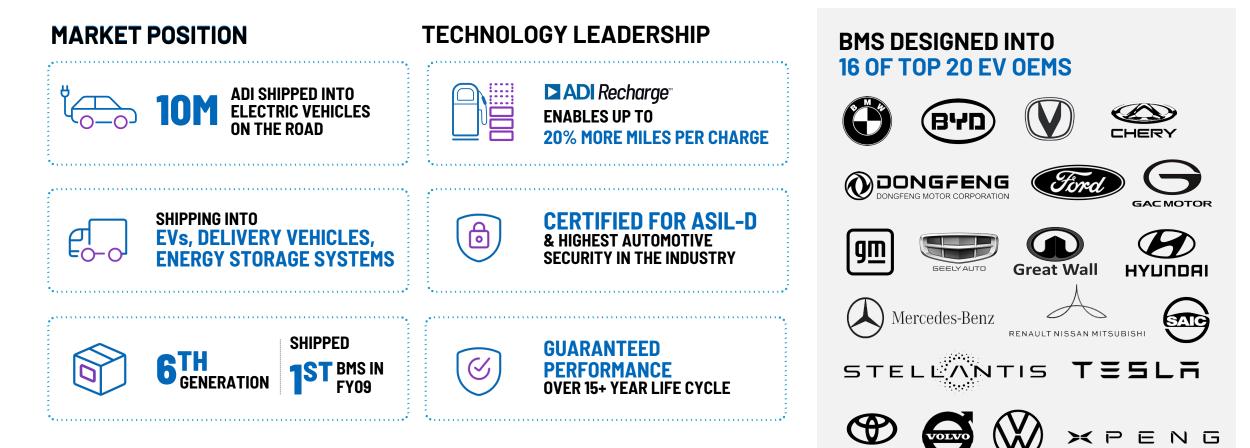








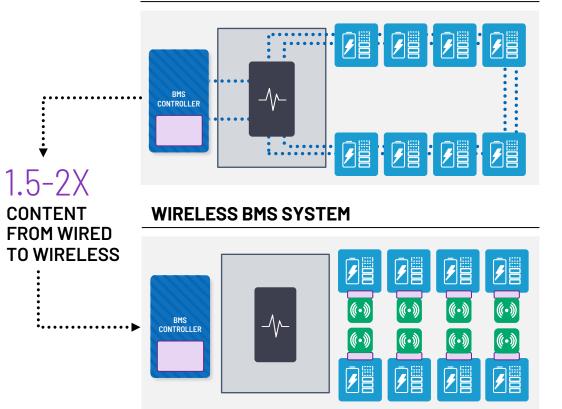
# ADI #1 IN BATTERY MANAGEMENT SYSTEMS (BMS)



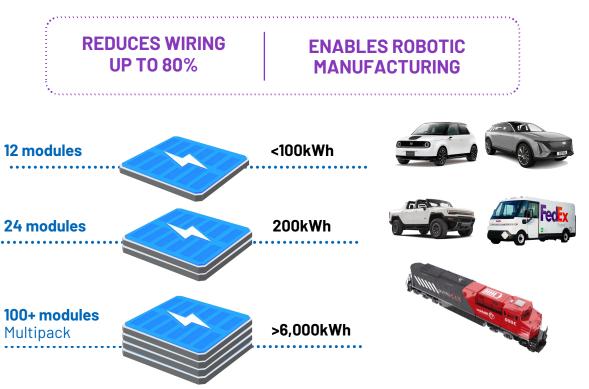


# **ADI FIRST WITH WIRELESS BMS**

### WIRED BMS SYSTEM



### DELIVERS ALL THE BENEFITS OF WIRED BMS... & MORE

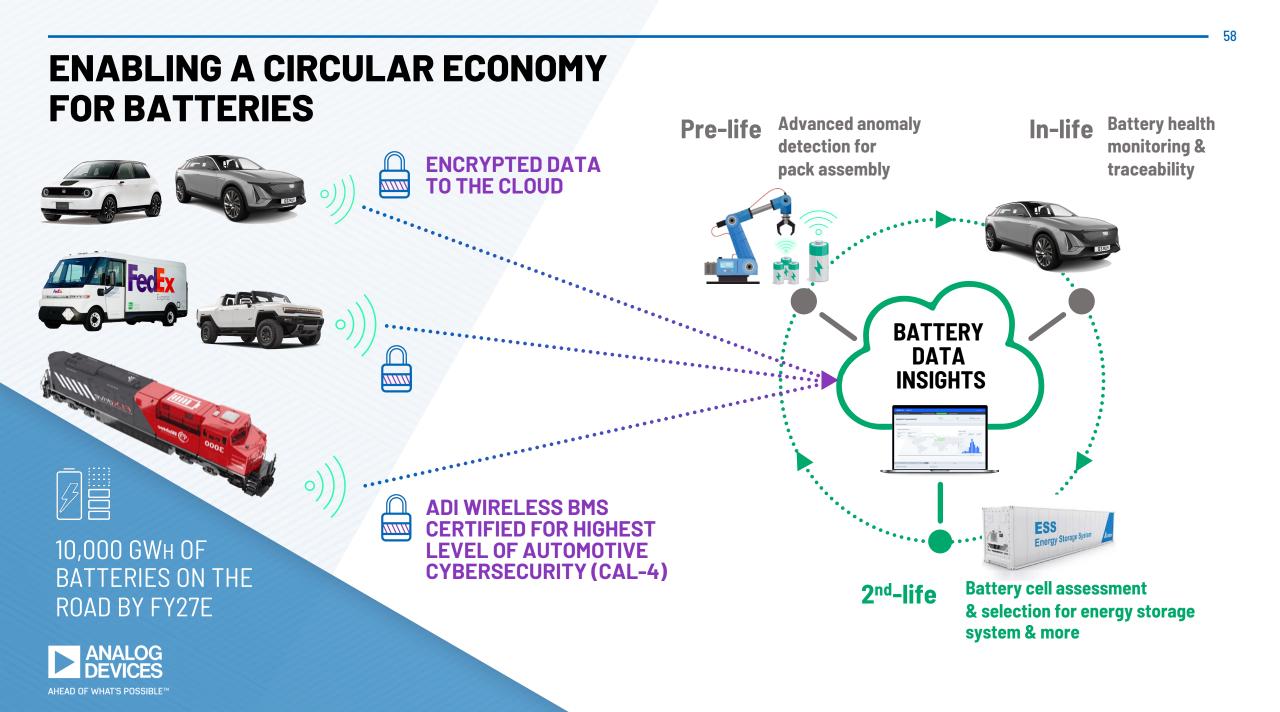


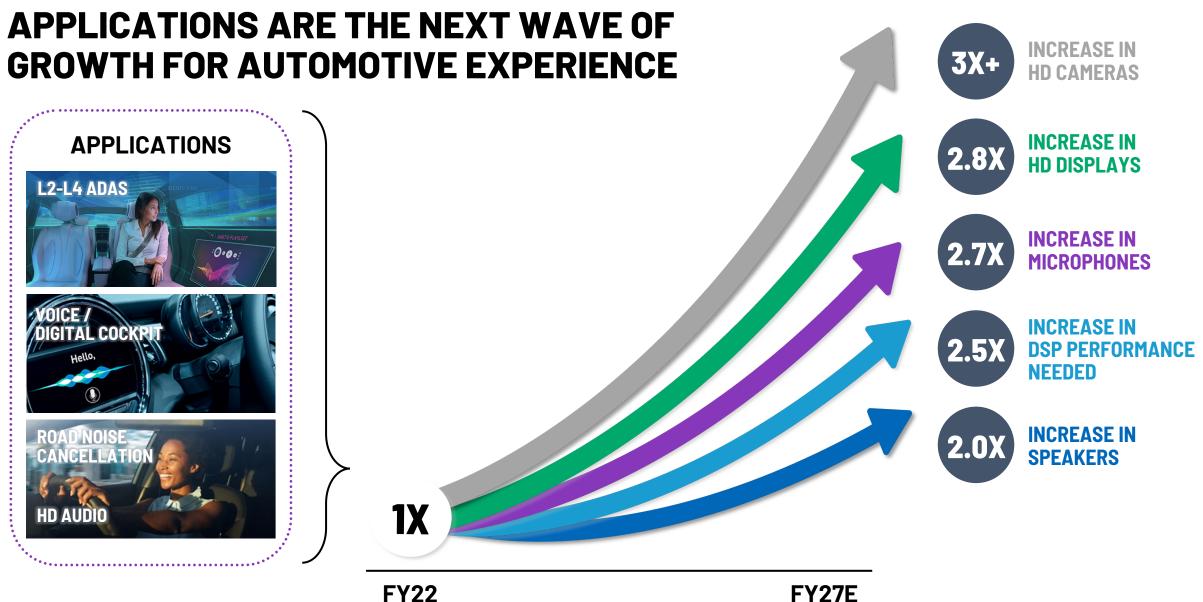


"Scalability and complexity reduction are a theme with our Ultium batteries – the wireless battery management systems is the critical enabler of the amazing flexibility."

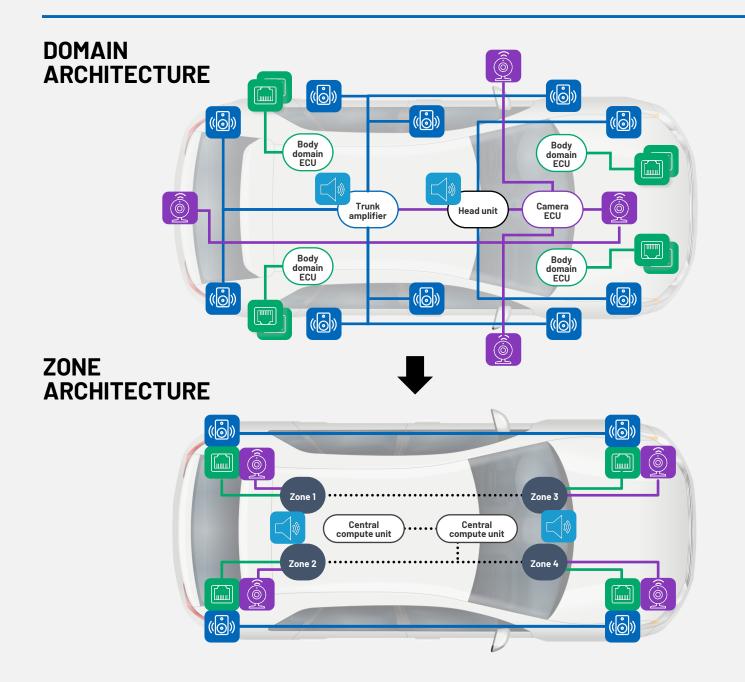
Kent Helfrich, Vice President, Global Research & Development, Chief Technology Officer & President, GM Ventures











# **ADI LEADING AUDIO PROCESSING, DATA, & VIDEO CONNECTIVITY**

**AUDIO** 



**SHARC DSP AUDIO PROCESSING** 

"Real-time" audio, voice, & acoustic performance



[سس]

( أَنْ

A<sup>2</sup>B **AUTOMOTIVE AUTO BUS** 

Dramatically reduces wiring complexity

DATA

**ETHERNET TO THE EDGE BUS** 

Seamlessly connecting ethernet to the edge

VIDEO

GMSL

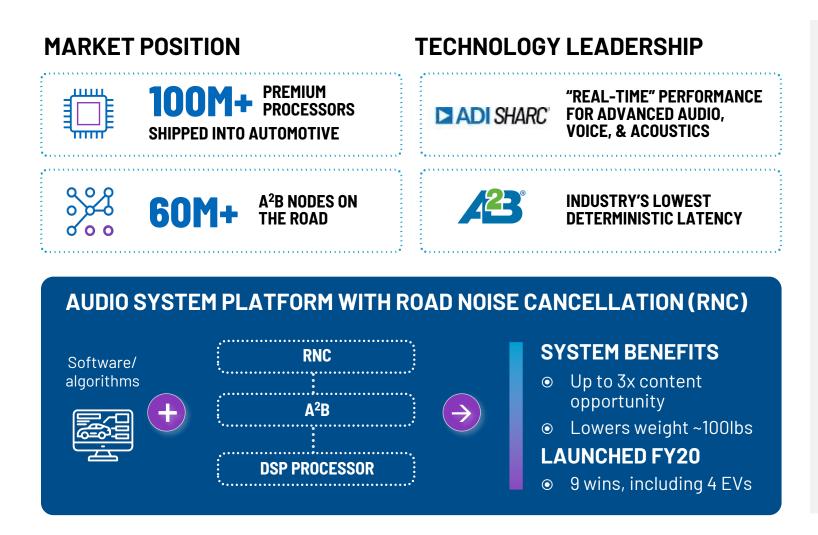
E<sup>2</sup>B

MULTI-GIGABIT VIDEO & DATA CONNECTIVITY

Robust high-speed display & camera connectivity



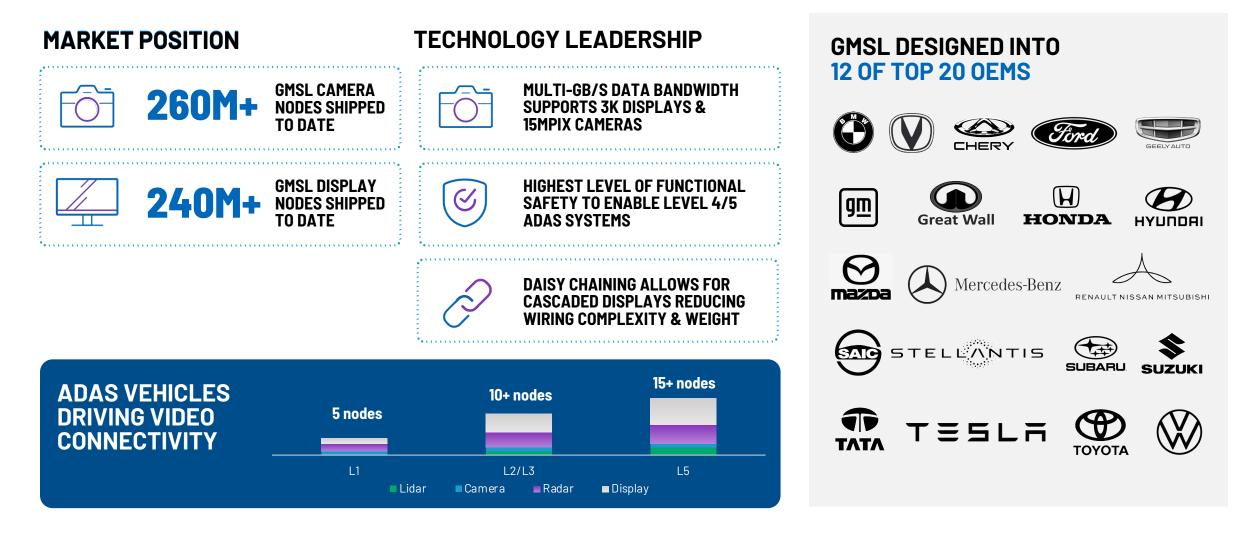
# ADI #1 IN PREMIUM AUDIO



# A<sup>2</sup>B DESIGNED INTO **18 OF TOP 20 OEMS** g<u>m</u> HONDA **Great Wall** нушпраі Mercedes-Benz RENAULT NISSAN MITSUBISHI STELLANTIS SUZUKI ESLA



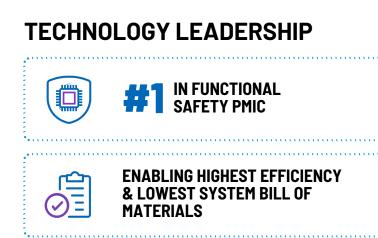
# ADI #1 IN VIDEO CONNECTIVITY

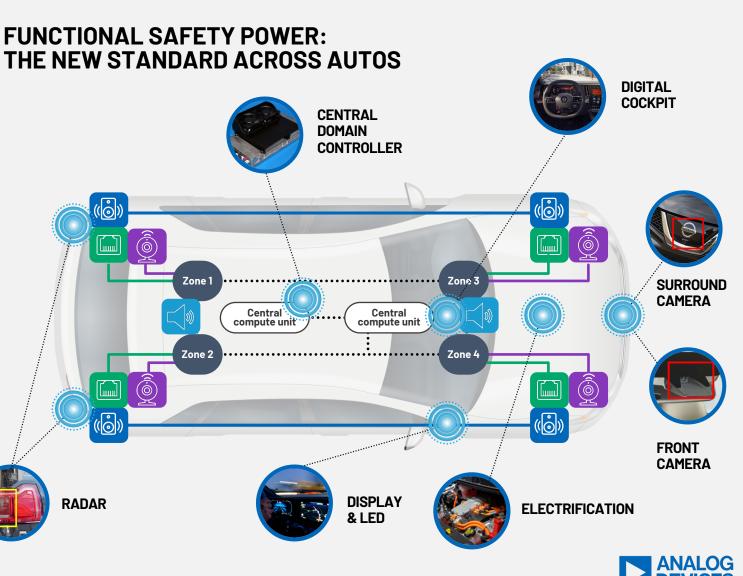




# **ADI POWER: SAFE ALL THE TIME**

# MARKET POSITION Shipping over 650M+ units per year Image: Shipping over Designed 18 of 20 dems Image: Shipping over Image: Shipping over

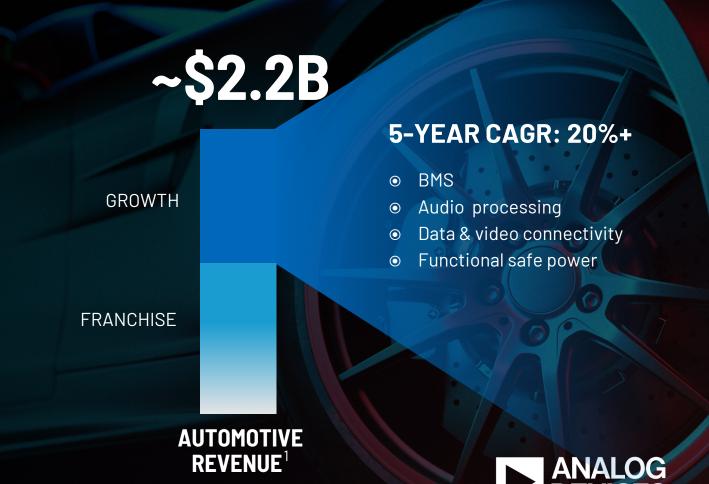




AHEAD OF WHAT'S POSSIBLE

# SUMMARY

- Making a positive impact for the industry & planet
- Leader in BMS, audio processing, data & video connectivity & functional safe power
- Growing leadership across the sustainable energy ecosystem



AHEAD OF WHAT'S POSSIBLE™

# LONG-TERM GROWTH BUILT ON CUSTOMER SUCCESS



# **ANELISE SACKS**

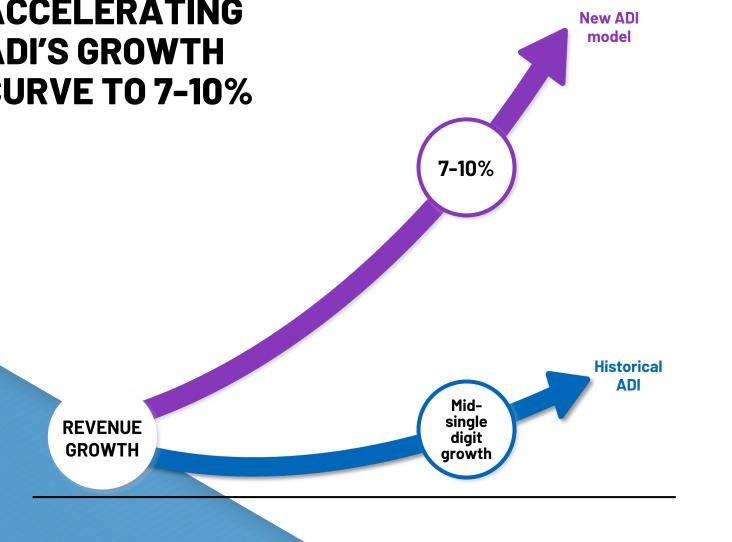
SVP, CHIEF CUSTOMER OFFICER

# HERE'S WHAT WE'LL COVER TODAY

- Differentiators at the core of ADI's growth story
- Turning point to scale our go-to-market strategies
- Revenue synergies adding momentum to transformation



# ACCELERATING **ADI'S GROWTH CURVE TO 7-10%**



# **EXPONENTIAL GROWTH DRIVERS**

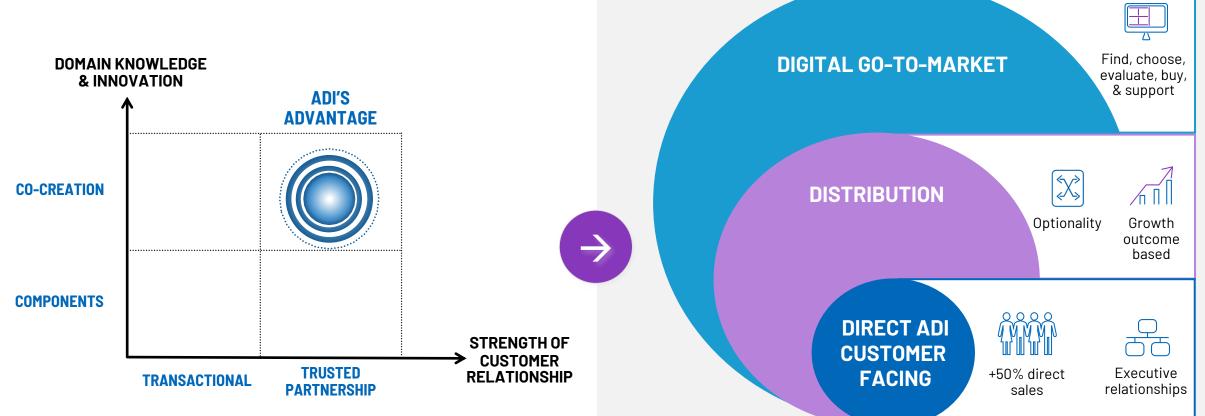
- Human & digital go-to-market  $\odot$
- Systems & solutions  $\odot$
- **Revenue synergies**  $\odot$
- Customer excitement on R&D  $\odot$
- Successful value capture  $\odot$
- Distribution optimization  $\bigcirc$

### **ANALOG POWERHOUSE Record opportunity pipeline**



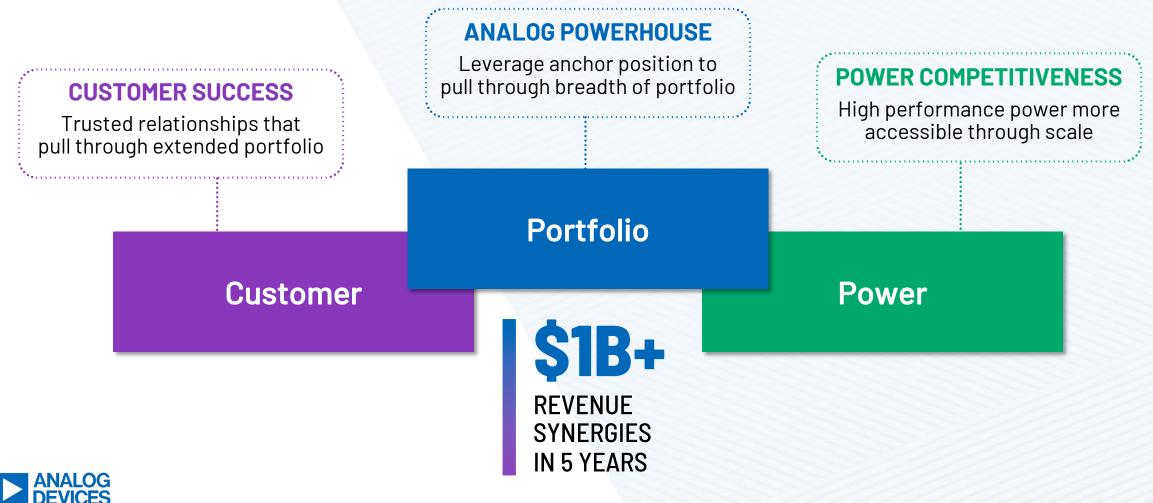
# **ADI: TRUSTED PARTNER THAT CO-CREATES WITH CUSTOMERS**

Scaling customer success by strengthening human & digital capabilities





# **CLEAR PATH TO REVENUE SYNERGIES**



AHEAD OF WHAT'S POSSIBLE

# **CUSTOMER SYNERGY: AUTOMOTIVE GMSL**

Trusted relationships to accelerate GMSL opportunities globally





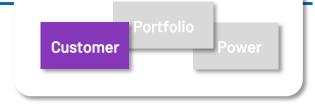
AHEAD OF WHAT'S POSSIBLE

 Strong relationships with global auto OEMs & Tier 1 suppliers

 Domain knowledge, software / DSP experience & strong resource position

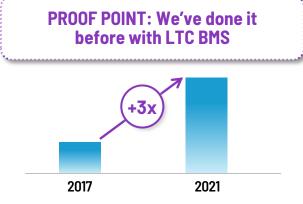
	A <sup>2</sup> B	GMSL	
North America			
DEM 1	۲		
0EM 2	۲		
0EM 3	۲		
Europe			
OEM 4	۲		
OEM 5	۲	۲	
OEM 6	۲		
0EM 7	۲	۲	
Asia			
OEM 8	۲		
OEM 9	۲	۲	
0EM 10		۲	

**OPPORTUNITY** 



69



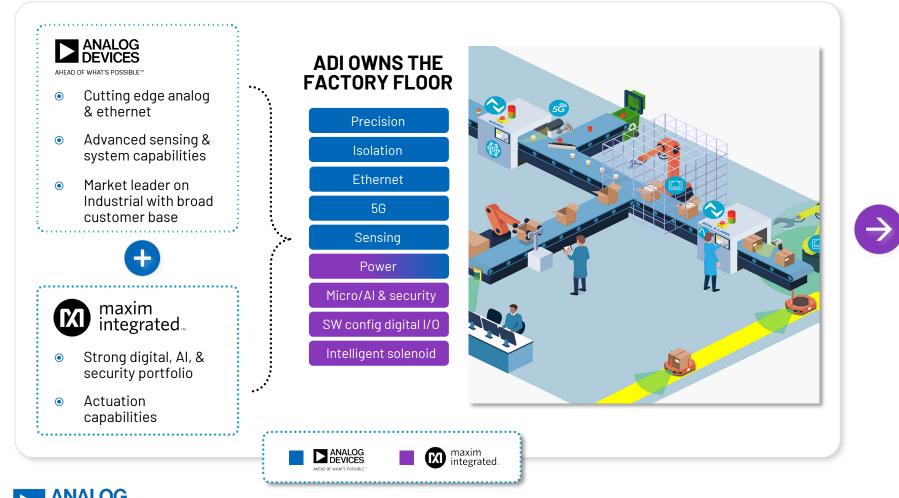




# **PORTFOLIO SYNERGY: PROCESS CONTROL**

Intelligence, control, & connectivity at the edge

AHEAD OF WHAT'S POSSIBLE



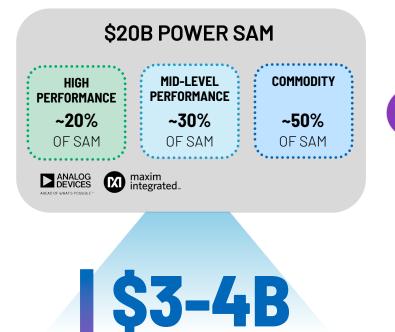


# **\$100M+** WITHIN 5 YEARS

- Solving design complexity with full analog, digital, & software solution
- Flexibility, time to market, & stickiness
- Future integration

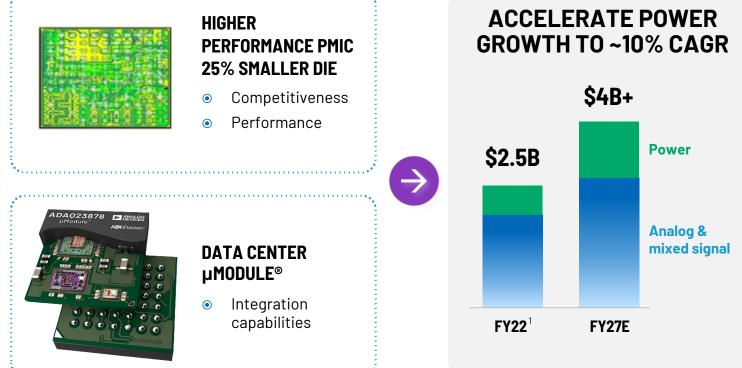
# POWER SYNERGY: OPPORTUNITY EXPANSION

 $\rightarrow$ 



**ADDRESSING MORE OF** 

**THE POWER MARKET** 



71

Power



**ADDITIONAL SAM** 

# SUMMARY

- Long-term growth model of 7-10%
- Experienced in acquisitions, Maxim expected to do better
- Expanded field team & digital capabilities
- Accelerated time to revenue synergies



# **HYBRID MANUFACTURING STRATEGY**



### **VIVEK JAIN**

SVP, GLOBAL OPERATIONS & TECHNOLOGY

### HERE'S WHAT WE'LL COVER TODAY

- Highly specialized manufacturer of analog mixed signal components & modules with 5+ decades of experience & long-standing customer relationships
- Hybrid manufacturing approach provides ADI with the greatest access to technologies & great resiliency
- Investing to strengthen hybrid model & support long-term sustainable growth



# HYBRID STRATEGY: AGILE & RESILIENT WITH VAST CAPABILITIES

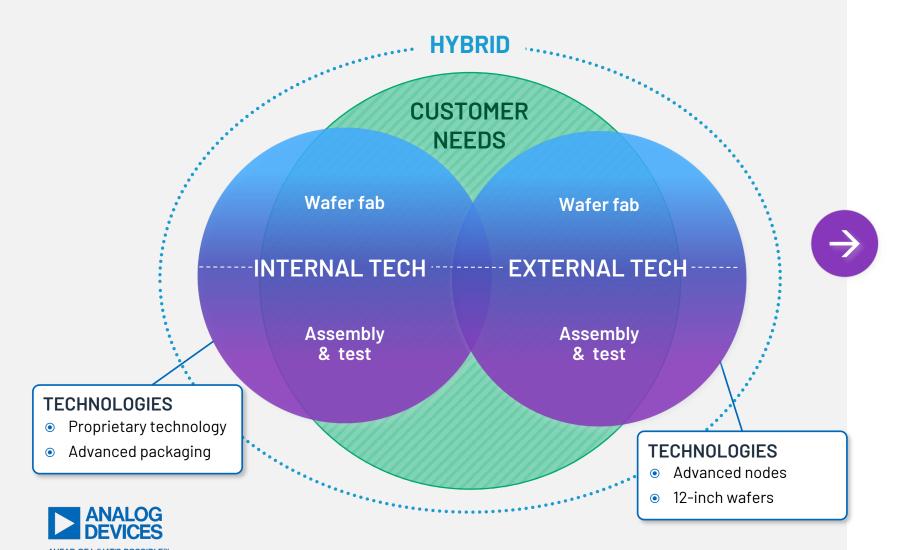


INTERNAL MIX Front-end manufacturing: 45% Back-end: Test 80% / Assembly 20%



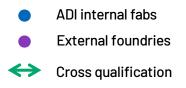


# HYBRID CAPABILITIES OFFER BEST OF BOTH WORLDS FOR CUSTOMERS



**KEY TAKEAWAYS** • 10K process recipes • ~75K products Capabilities span from  $oldsymbol{O}$ nanometers to / microns Provides optionality  $oldsymbol{O}$ for a wide range of needs across 125K+ customers

# **CROSS QUALIFICATION & TRUSTED PARTNERSHIPS ENHANCE RESILIENCE**



Unique ability to flex across ADI & foundry sites drives unmatched resiliency



0.0-

Proprietary 180nm technology qualified across 4 different sites globally



# **INVESTING FOR GROWTH**

### **CAPEX AS % OF REVENUE**

### **KEY ASPECTS OF THE BUILDS**

HISTORICAL

~4%

FY22-FY23 High-single digit

Long-term 4-6%

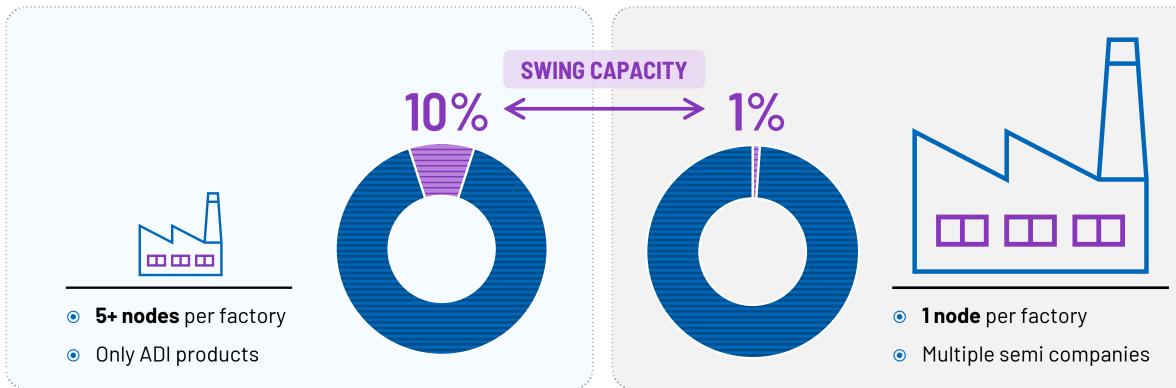
<b>2X</b> OUTPUT Beaverton + Ireland fabs	Critical high-volume nodes	Quick qualification				
70%+ Capacity will be able to swing after complete	Securing additional external capacity globally	High ROI				



# HYBRID MODEL PROVIDES GROSS MARGIN RESILIENCY

### ADI FAB CAPACITY

### **EXTERNAL FOUNDRY CAPACITY**





# INTERNALLY DEVELOPED 90 NANOMETER TECHNOLOGY (P90) PROVIDES BEST IN CLASS POWER PLATFORM

# Power management IC Flash memory

**ALTERNATIVE** 

 $\rightarrow$ 25% smaller die **Better performance** Lower costs (300mm) Faster time to market

**ADI'S P90** 

### AUTOMOTIVE 80v



### **CONSUMER 2v**







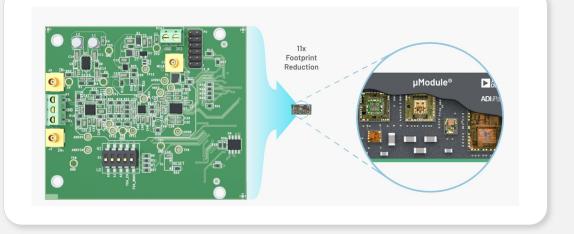
### **INDUSTRIAL 36v**

DATA CENTER 16v

### Supercharging ADI's power offerings



# PACKAGE TECHNOLOGY ENABLES SYSTEM SOLUTIONS





### INDUSTRIAL

- AD5562 ATE power supply 5 die µModule
- Advanced interconnect flip chip
- 3D heterogeneous integration



### COMMUNICATIONS

- 16nm transceiver
- Advanced multi-layer ABF laminate
- Flip chip interconnect

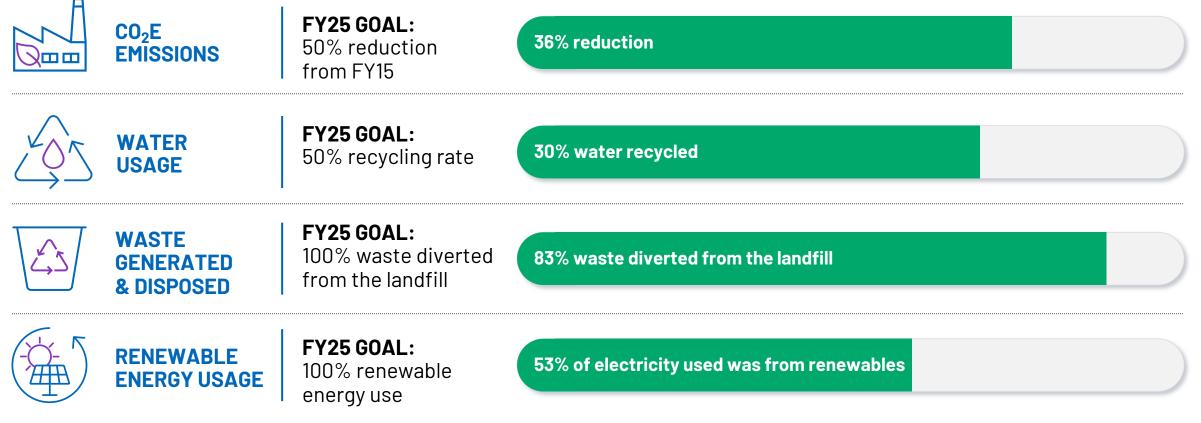
ADI's advanced package technology provides a platform for integrated solutions solving our customers' most challenging problems



# **OUR COMMITMENT TO THE PLANET**

Answering the global call to action for the future

### FY20 PERFORMANCE FOR MANUFACTURING SITES





Note: Sustainability goals were put forth pre-Maxim. ADI will update our progress against goals in it's next ESG report, expected in May/June 2022.

# SUMMARY

- Complementary partner technologies with in-house differentiated technologies to solve customers' most complex challenges
- Fastest path to support the needed demand for customers
- Investing to strengthen hybrid model & support long-term sustainable growth & financial resilience
- Unrelenting customer-focused mindset



### **NEW FINANCIAL MODEL**



### PRASHANTH MAHENDRA-RAJAH

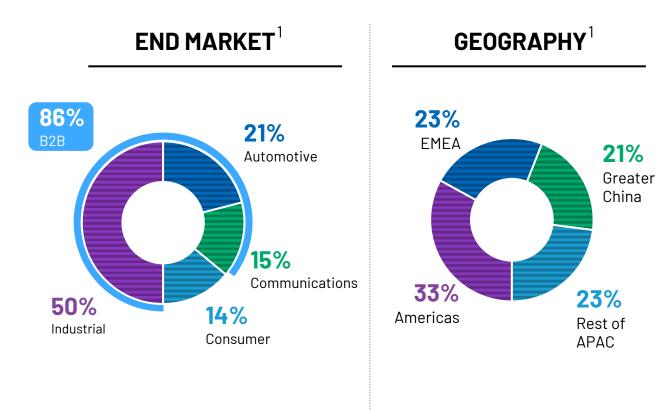
SVP & CFO

### HERE'S WHAT WE'LL COVER TODAY

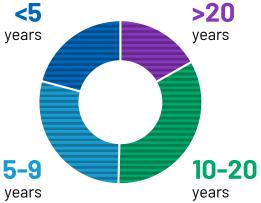
- Highly diverse & sticky revenue stream with exceptional profitability
- Positioned to deliver on new, stronger long-term financial model
- Accelerated cost synergy progress & outlook
- Robust financial position with an attractive capital allocation strategy



# ENDURING & HIGHLY DIVERSIFIED PORTFOLIO CREATING HIGH BARRIERS TO ENTRY

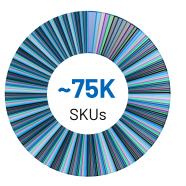






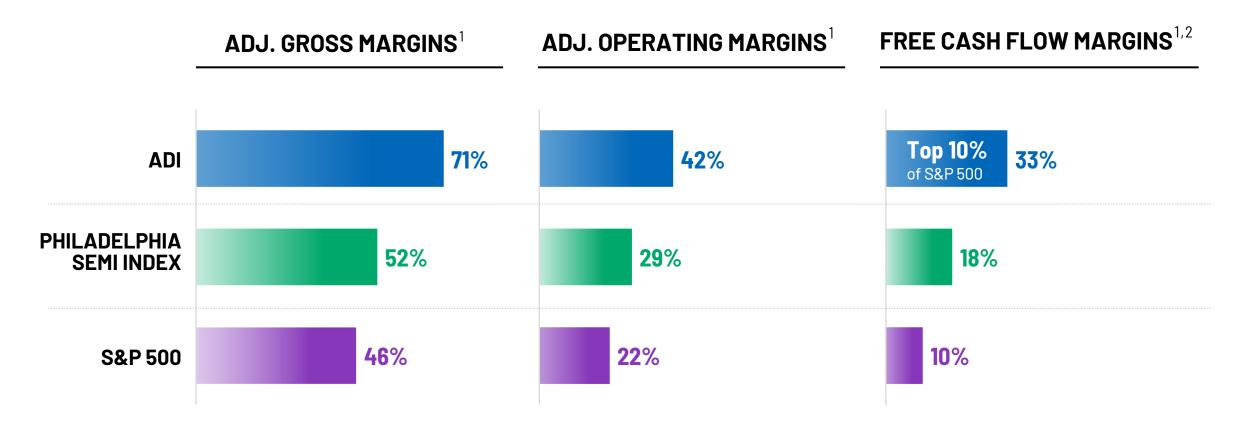
### PRODUCTS

~80% of revenue derived from products that individually contribute 0.1% or less





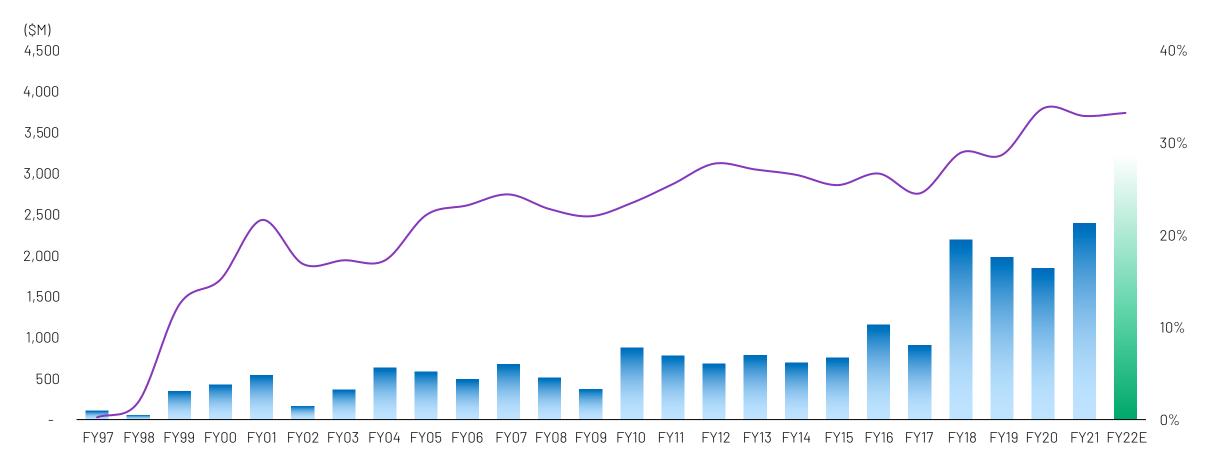
# ADI IS DELIVERING TOP-TIER PROFITABILITY IN A TOP-TIER INDUSTRY





1. As of end fiscal 2021. ADI's adj. gross margin, adj. operating margin & free cash flow margin are presented on an adjusted basis & exclude special items. Please refer to the appendix for a reconciliation of these adjusted measures to their most comparable GAAP measures. Philadelphia Semi Index & S&P 500 Index data sourced from Bloomberg. 2. Free cash flow is equal to operating cash flow, less capital expenditures.

# ADI HAS DELIVERED 25 CONSECUTIVE YEARS OF POSITIVE FREE CASH FLOW



FCF (\$M)<sup>1,2</sup> — Rolling 3yr FCF %<sup>1</sup>



End of fiscal year.
 Free cash flow is equal to operating cash flow, less capital expenditures.

### LONG-TERM FINANCIAL MODEL

	FY17 MODEL <sup>1</sup>	NEW MODEL <sup>1</sup>
Revenue growth	Mid-single-digit	7-10% CAGR
Adj. gross margin	70%+	70% floor
Adj. operating margin	39-45%	42-50%
Free cash flow margin <sup>2</sup>	34-42%	34-40%
Free cash flow return	80-100% after debt reduction	100%
CapEx as a % of revenue	4%	4-6%

# PATH TO \$15 EPS'& 40% FCF<sup>1,2</sup> BY FY27



 A reconciliation of the non-GAAP financial measures included in this chart to the corresponding GAAP measures is not available without unreasonable effort. Refer to the appendix for historical adjustments from GAAP to Non-GAAP measures, which have been significant in prior periods.
 Free cash flow is equal to operating cash flow, less capital expenditures.

# **ADI'S FINANCIAL PRIORITIES**



Drive above market profitable growth



Enhance industry-leading margin profile



Disciplined financial management & operating efficiency



Attractive capital allocation model delivering 100% FCF return<sup>1</sup>

### **Creating long-term shareholder value**

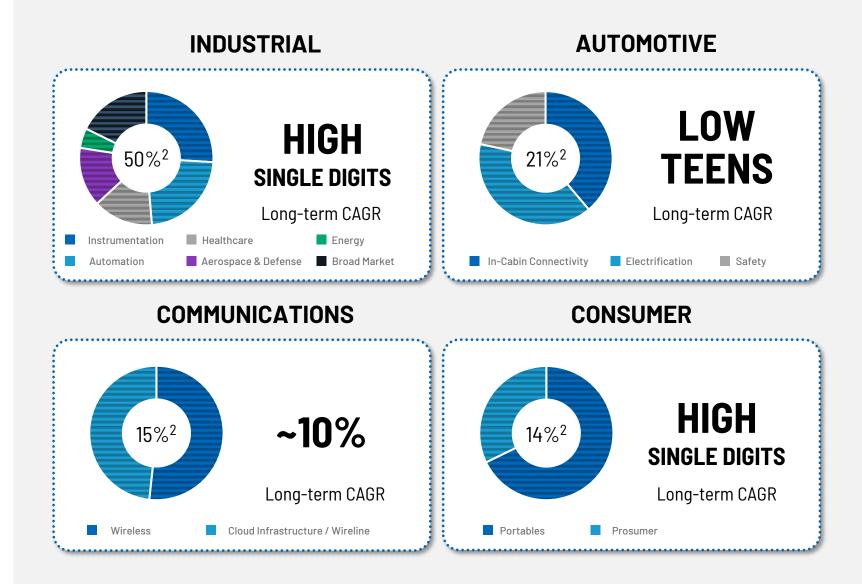


1. Free cash flow is equal to operating cash flow, less capital expenditures.

# LONG-TERM REVENUE OUTLOOK

LONG-TERM REVENUE CAGR

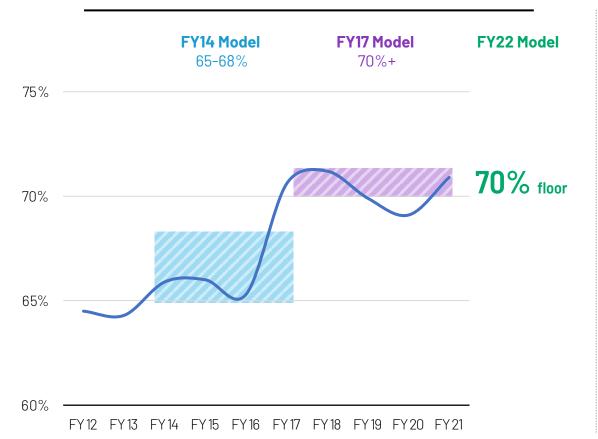
TOTAL ADI<sup>1</sup> ~\$11.2B



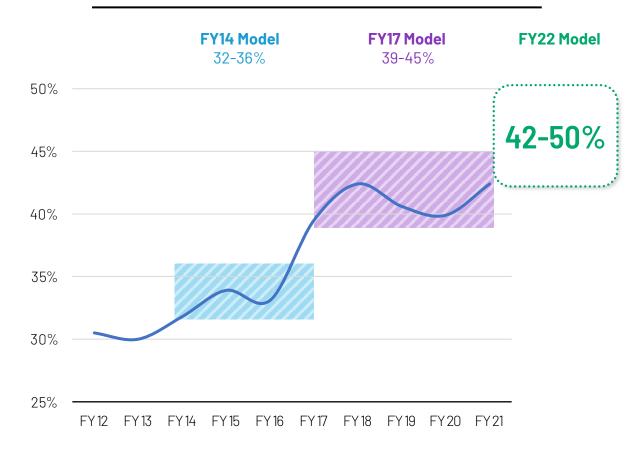


# **TRACK RECORD OF CONSISTENT MARGIN EXPANSION**

### **ADJ. GROSS MARGINS**<sup>1</sup>



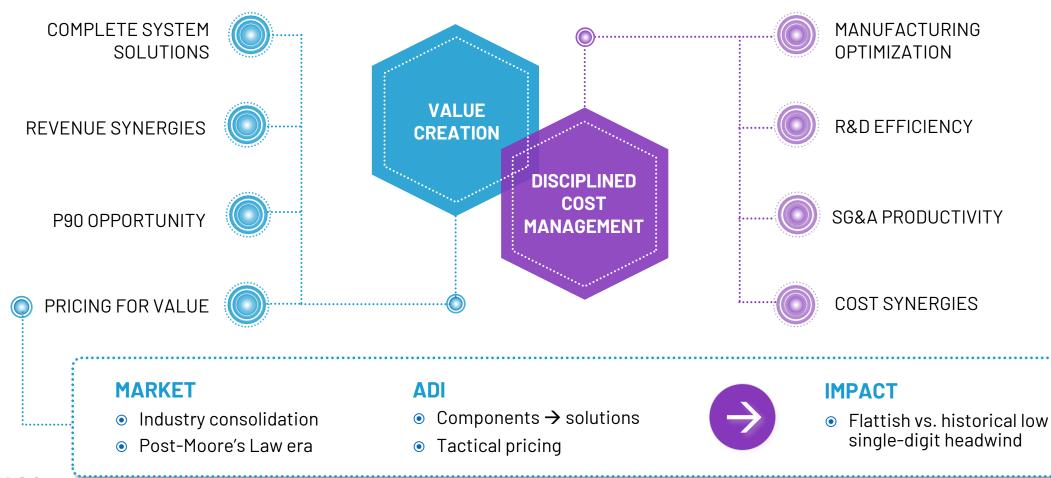
### **ADJ. OPERATING MARGINS**<sup>1</sup>





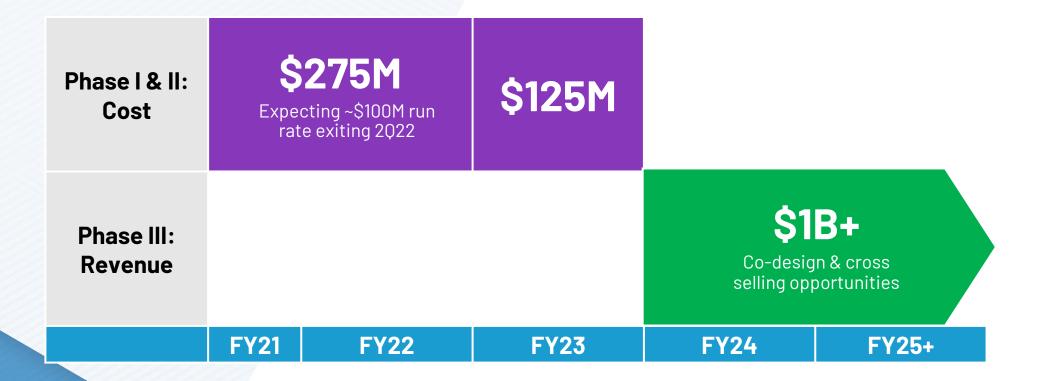
1. As reported at end of fiscal year. ADI's adj. gross margin & adj. operating margin are presented on an adjusted basis & exclude special items. Please refer to the appendix for a reconciliation of these adjusted measures to their most comparable GAAP measures.

# CONTINUED MARGIN DISCIPLINE DRIVING OPERATING LEVERAGE





# **MAXIM SYNERGIES UPDATE**



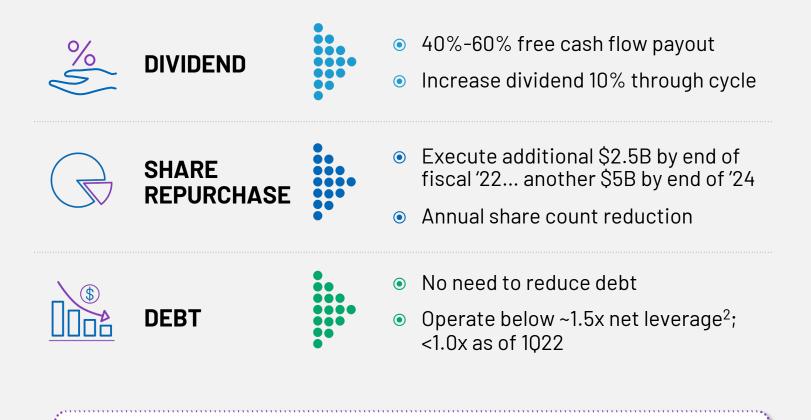
# Accelerating & increasing cost synergies to \$400M with revenue synergies ahead



# ATTRACTIVE CAPITAL ALLOCATION STRATEGY

### **CAPITAL RETURN**





Target 100% free cash flow<sup>3</sup> return to shareholders



1. ADI market capitalization as of April 4, 2022.

2. Net leverage ratio is Non-GAAP measures. Please refer to the appendix for a reconciliation of these Non-GAAP measures to their most comparable GAAP measures. 3. Adjusted free cash flow equal to operating cash flow, less capital expenditures, & payment on debt obligations. - 93

### DELIVERING LONG-TERM VALUE CREATION



### **RESILIENT GROWTH**

Highly diverse & sticky revenue stream aligned to secular growth markets



### HIGHLY PROFITABLE

- FCF margin top 10% of S&P 500<sup>1</sup>
- Path to \$15 EPS<sup>2</sup> & 40% FCF margin<sup>1</sup>



### **100% FCF RETURN<sup>1</sup>**

- Consistent dividend increases
- Annual share count reduction



1. Free cash flow is equal to operating cash flow, less capital expenditures. S&P 500 Index data sourced from Bloomberg. 2. EPS is presented on an adjusted basis and excludes special items. A reconciliation of this non-GAAP financial measure to the corresponding GAAP measure is not available without unreasonable effort.





### VINCENT ROCHE CEO & CHAIR



### **KEY TAKEAWAYS**

Unmatched technological capabilities & customer-first mentality Franchise strength & secular growth drivers support long-term revenue growth of 7-10%

Industry-leading financial model with consistent & increasing capital returns 96

\*\*\*\*\*\*\*\*\*\*





# GAAP to NON-GAAP Reconciliations



FY 21		FY 21		FY 21			
Revenue	\$7 <i>,</i> 318	Revenue	\$7,318	Revenue	\$7,318		
GAAP Gross Margin	\$4,525	GAAP Operating Income	\$1,692	Net Cash Provided by Operating Activities	\$2,735		
GAAP Gross Margin % of Revenue	62%	GAAP Operating Margin	23%	Net Cash Provided by Operating Activities % of Revenue	37%		
Acquisition related expenses	\$661	Acquisition related expenses	\$1,214	Capital Expenditures	\$344		
Adjusted Gross Margin	\$5,186	Special charges, net	\$84	Free Cash Flow	\$2,391		
Adjusted Gross Margin % of Revenue	71%	Acquisition related transaction costs	\$113	Free Cash Flow % of Revenue	33%		
		Adjusted Operating Income	\$3,104				
		Adjusted Operating Margin					
		% of Revenue	42%				

(\$ in millions) The sum and/or computation of the individual amounts may not equal the total due to rounding.



	Revenue from	Net Cash Provided by			Free Cash Flow % of	Rolling 3 year
FY	<b>Continuing Operations</b>	<b>Operating Activities</b>	Capital Expenditures	Free Cash Flow	Revenue	average FCF %
2021	\$ 7,318	\$ 2,735	\$ 344	\$ 2,391	33%	33%
2020	5,603	2,008	166	1,843	33%	34%
2019	5,991	2,253	275	1,978	33%	29%
2018	6,225	2,442	255	2,187	35%	29%
2017	5,246	1,154	204	950	18%	25%
2016	3,421	1,281	127	1,153	34%	27%
2015	3,435	908	154	754	22%	25%
2014	2,865	872	178	694	24%	26%
2013	2,634	912	123	789	30%	27%
2012	2,701	815	132	682	25%	28%
2011	2,993	901	123	778	26%	25%
2010	2,762	991	112	880	32%	23%
2009	2,015	432	56	376	19%	22%
2008	2,583	669	157	512	20%	23%
2007	2,465	820	142	679	28%	26%
2006	2,250	621	129	492	22%	27%
2005	2,037	673	85	587	29%	26%
2004	2,115	778	146	632	30%	19%
2003	2,047	433	68	365	18%	17%
2002	1,708	226	57	169	10%	17%
2001	2,277	844	297	546	24%	22%
2000	2,578	705	275	430	17%	16%
1999	1,450	442	78	365	25%	13%
1998	1,231	225	167	58	5%	2%
1997	1,243	286	179	106	9%	0%
1996	1,194	144	234	(90)	-8%	
1995	942	210	213	(2)	0%	



he sum and/or computation of the individual amounts may not equal the total due to rounding.

Fiscal year		<u>2021</u>		<u>2020</u>		<u>2019</u>		<u>2018</u>		<u>2017</u>	<u>2016</u>		<u>2015</u>	<u>2014</u>	<u>2013</u>	<u>2012</u>	<u>2011</u>
Revenue	\$	7,318 \$	5	5,603	\$5	,991	\$	6,225	\$	5,246 \$	3,421	\$	3,435 \$	2,865 \$	2,634 \$	2,701 \$	2,993
GAAP Gross Margin	\$	4,525 \$	3	3,690	\$ 4	,014	\$	4,250	Ś	3,168 \$	2,227	\$	2,259 \$	1,830 \$	1,692 \$	1,741 \$	1,987
GAAP Gross Margin %	Ŧ	61.8%		65.9%	•	7.0%	Ŧ	68.3%	Ŧ	60.4%	65.1%	•	65.8%	63.9%	64.3%	64.5%	66.4%
Adjustments:																	
Acquisition related expenses		661		179		175		181		480	7		7	61	-	-	-
Adjusted Gross Margin \$	\$	5,186 \$	3	3,870	\$4	,189	\$	4,431	\$	3,648 \$	2,234	\$	2,266 \$	1,891 \$	1,692 \$	1,741 \$	1,987
Adjusted Gross Margin %		70.9%	(	69.1%	6	9.9%		71.2%		69.5%	65.3%		66.0%	66.0%	64.3%	64.5%	66.4%
Operating Margin \$	\$	1,692 \$	1	1,498	\$1	,711	\$	1,899	\$	1,055 \$	1,028	\$	831 \$	752 \$	753 \$	824 \$	1,072
Operating Margin %		23.1%	-	26.7%	2	8.6%		30.5%		20.1%	30.0%		24.2%	26.3%	28.6%	30.5%	35.8%
Adjustments:																	
Acquisition related expenses		1,214		624		627		658		808	77		97	94	-	-	-
Acquisition related transaction costs		113		20		-		22		70	14		10	27	-	-	-
Special charges, net		84		52		96		61		49	14		-	37	30	6	-
Charitable foundation contribution		-		40		-		-		-	-		-	-	-	-	-
Other operating expense		-		-		-		3		-	-		228	(1)	6	-	-
Adjusted Operating Margin \$	\$	3,104 \$	2	2,234	\$2	,433	\$	2,643	\$	1,982 \$	1,133	\$	1,166 \$	908 \$	789 \$	830 \$	1,072
Adjusted Operating Margin %		42.4%	3	39.9%	4	0.6%		42.5%		37.8%	33.1%		33.9%	31.7%	30.0%	30.7%	35.8%

(\$ millions)

The sum and/or computation of the individual amounts may not equal the total due to rounding.



Net Debt to Trailing	Twelv	e Mont	h (1	FTM) EBI	TDA				
(\$ millions)		2Q21		3Q21	4Q21	1Q22		ТТМ	
Income from Continuing Operations, Net of Tax	\$	643	\$	757	\$ 76	\$	280	\$	1,756
Provision for Income Taxes		80		96	(232)		43		(12)
Income from Continuing Operations before Income Taxes		723		853	(156)		324		1,744
Nonoperating Expense		44		43	255		41		383
Restructuring Related		0		(8)	93		60		145
Stock Based Compensation Expense*		59		60	115		60		294
Acquisition-Related Expenses		156		151	761		791		1,859
Acquisition-Related / Other Transaction Costs		26		20	56		13		116
Depreciation*		68		69	58		59		254
Total Adj. EBITDA	\$	1,077	\$	1,189	\$ 1,182	\$	1,348	\$	4,796
Gross Debt								\$	6,254
Cash and cash equivalents									1,790
Net Debt								\$	4,463
Net Leverage Ratio									0.9

\*Stock-based compensation expense and depreciation exclude acquisition-related adjustments incorporated into acquisition-related expenses.

The sum and/or computation of the individual amounts may not equal the total due to rounding.

