

Investors Presentation

January 2021





Forward Looking Statements

This presentation contains forward-looking statements within the meaning of safe harbor provisions of the Private Securities Litigation Reform Act of 1995 relating to future events or our future performance, such as statements regarding, but are not limited to, the expected completion of the proposed acquisition of ancosys and the timing thereof, the satisfaction or waiver of any closing conditions of the proposed acquisition, anticipated benefits, growth opportunities and other events relating to the proposed acquisition, projections about our business and its future revenues, expenses and profitability. Forward-looking statements are based on management's current expectations and involve known and unknown risks, uncertainties and other factors that may cause our actual results, levels of activity, performance or achievements to be materially different from any future results, levels of activity, performance or achievements expressed or implied in those forward-looking statements. These risks and other factors include but are not limited to: our ability to satisfy all the conditions to the closing of the proposed acquisition; risks related to unexpected costs, liabilities or delays in the proposed acquisition; the occurrence of any event, change or other circumstances that could give rise to the termination of the purchase agreement; the ability to recognize benefits of the proposed acquisition; risks that the proposed acquisition disrupts current plans and operations; and impact of the proposed acquisition on relationships with customers, distributors and suppliers. Factors that may affect our results, performance, circumstances or achievements include, but are not limited to, the following: catastrophic events such as the outbreak of COVID-19; increased information technology security threats and sophisticated computer crime; foreign political and economic risks; changes in U.S. trade policies; inability to protect intellectual property; open source technology exposure; failure to compete effectively or to respond to the rapid technological changes; consolidation in our industry; difficulty to predict the length and strength of any downturn or expansion period of the market we target; factors that adversely affect the pricing and demand for our product lines; dependency on a small number of large customers; dependency on a single manufacturing facility per product line; dependency on a limited number of suppliers; lengthy sales cycle and customer delays in orders; political, economic, and military instability in Israel; risks related to our convertible notes; currency fluctuations; and quarterly fluctuations in our operating results. We cannot guarantee future results, levels of activity, performance or achievements.

The matters discussed in this presentation also involve risks and uncertainties summarized under the heading "Risk Factors" in Nova's Annual Report on Form 20-F for the year ended December 31, 2020 filed with the Securities and Exchange Commission on March 1, 2021. These factors are updated from time to time through the filing of reports and registration statements with the Securities and Exchange Commission. Nova Ltd. does not assume any obligation to update the forward-looking information contained in this presentation.

This presentation provides financial measures that exclude amortization of acquired intangible assets, stock-based compensation expenses, expense related to a transaction made by a financial institution without Company authorization, revaluation of operating lease liabilities, amortization of debt discount and issuance costs and tax effect of non-GAAP adjustment, as applicable, and are therefore not calculated in accordance with generally accepted accounting principles (GAAP). Management believes that these non-GAAP financial measures provide meaningful supplemental information regarding Nova's performance because they reflect our operational results and enhance management's and investors' ability to evaluate Nova's performance before charges or benefits considered by management to be outside Nova's ongoing operating results. The presentation of this non-GAAP financial information is not intended to be considered in isolation or as a substitute for the financial information prepared and presented in accordance with GAAP. Management believes that it is in the best interest of its investors to provide financial information that will facilitate comparison of both historical and future results and allow greater transparency to supplemental information used by management in its financial and operational decision making. A reconciliation of each GAAP to non-GAAP financial measure discussed in this presentation is contained in the accompanying financial tables.





Nova is a leading innovator and a key provider of **metrology** solutions for advanced **process control** used in semiconductor manufacturing



NOM

A Trusted Partner

We measure ourselves by our ability to transcend expectations and boundaries

We partner with our customers to craft innovative process control solutions enhanced with unique value

Dare Listen **Execute**

Dream

Innovate

Win





1993 | Date Founded | Dually Traded



1000 | Employees



Presence | Israel HQ. Global Offices



>4000 | Active Systems Installed-Base



>200 | Customer Sites



R&D | Israel, USA, Germany



Sustainable Profitable Growth

2021 Performance

20%

Revenue CAGR

33%

Operating Income CAGR

\$413M

Revenue

30%

Operating Margin

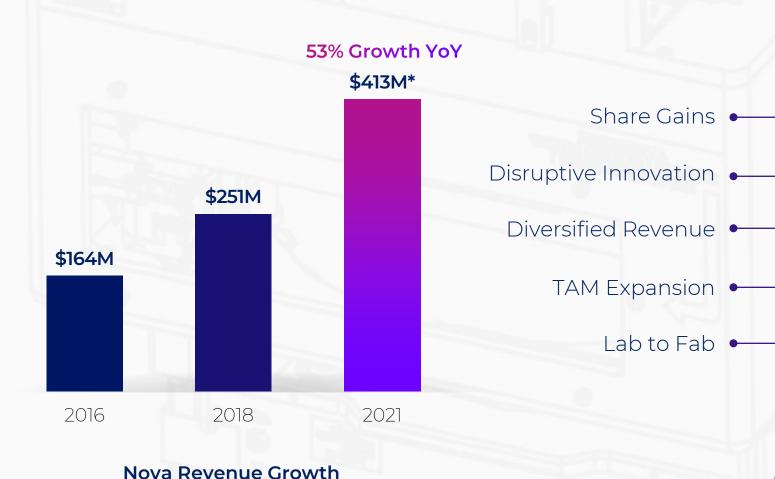
CAGR - 2016-2021 Non-GAAP Financials Including company Q4 21 mid-guidance

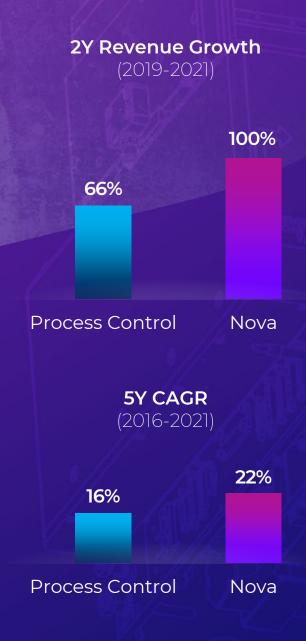




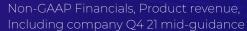
Solid Track Record

Outperforming Industry Indexes



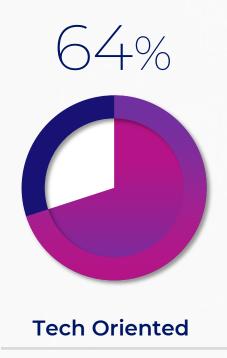








Investing in Talent Wide Diversity



Top Universities





Nova Acquires ancosys

Expanded portfolioDimensional,Materials, Chemical

Increases TAM
By \$300M

Cross markets synergyFront-end, Back-end& Advanced Packaging

Cultural Strengthhigh-end technology andcultural synergy

- Adapting to Global

 Dynamics

 Operations center in Europe
- Potential tech synergy
 Better process insight

A strong metrology leader with a differentiated portfolio for advanced process control in FE & BE Semi



Deal Financial Rational



Deal Fundamentals

Nova acquires 100% of ancosys GmbH,

 a privately held company for ~\$90 million USD
 in cash including \$10 million USD performance
 based earnout



- Deal expected to be accretive within
 12 months of closing on a non-GAAP basis
- Expanding Nova's addressable market, expected to grow by \$300M



The combined company is expected to generate over \$500M in annual revenues

Unique Portfolio

Dimensional, Materials & Chemical



Disruptive Technology

X-Ray, Optical, Chemical, HW and SW



Diversified Exposure

Segments, Customers, Territories



Solid Operational Model

Agility, Resiliency, Profitability



Cultural Advantage

Partnership, Values, Social Responsibility











Fabless aws BROADCOM* **O**LIALCOWW, Meta **DVIDIA** HISILICON





SAMSUNG

Powertech

intel









Innovative Technology







Semiconductor Segments [One ten-billionth of a meter]

Dimensions / Materials Parameters

Optical / X-Ray

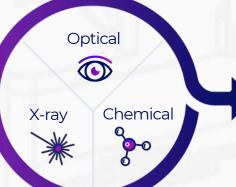


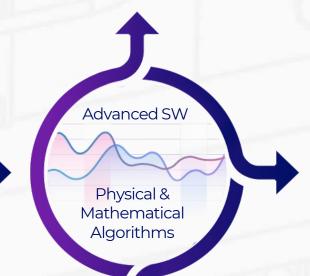


Measuring The Invisible

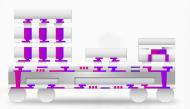




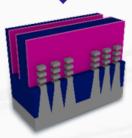














Expanding Into New Markets

Expanding Nova's reach to BE, Advanced Packaging and Chemical/Material Suppliers

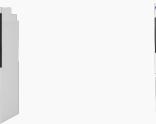




Rich Metrology Portfolio

Dimensional Metrology

• Optical Critical **Dimensions**







NOVA i570 Integrated Metrology

NOVA ASTERA Integrated Metrology **NOVA PRISM**

Standalone Metrology

Materials Metrology

 Materials **Properties**







NOVA VERAFLEX

NOVA ELIPSON

NOVA METRION

SIMS

X-Ray (XPS, XRF)

Raman Spectroscopy



ancosys ancolyzer Front End



ancosys ancolyzer Back End

Chemical Metrology

 Chemical Analytics

Modeling

Physical &

Big Data Analytics

Mathematical

Software

Core Technology

Spectral Reflectometry (SR) •

X-Ray Photoelectron Spectroscopy (XPS) •

X-Ray Fluorescence (XRF) •

Physical Modeling

Fleet Management •

Disruptive Technology

Spectral Interferometry (SI)

Multi Channel Integrated Metrology

Raman Spectroscopy

Innovative

Approach

to Address

Future Needs

Secondary ion mass spectrometry

High-Performance Liquid
Chromatography (HPLC)
& Pulsed Cyclic Galvanostatic Analysis
(PCGA)



Semiconductor Demand Driven By Multiple Catalysts



25% **CAGR**



VR

36% **CAGR**



Cloud Computing

> 25% **CAGR**



Industrial IoT

23% **CAGR**



Autonomous Vehicle

20 TB Per Car Daily



5G

37% **CAGR**



ΑI

42% **CAGR**

2010 Mobile Internet Mobility



2015 Data Augmentation **Productivity**



2020 **Enhanced Connectivity** Resiliency



2025 Data Efficiency Veracity



Growing Demand

Semiconductors enable advanced digitization







Gaming & Video



Cryptonomy



5G



IOT Sensors



Wearables



Cloud Data

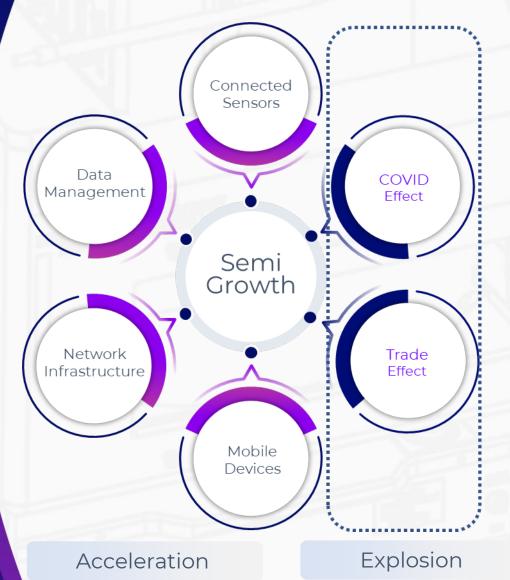


ΔΙ



Automotive





2 Beyond Capacity
Performance Demand



Enablement



Increasing Complexity = Growing Demand

Dimensional Metrology Intensity Intensity

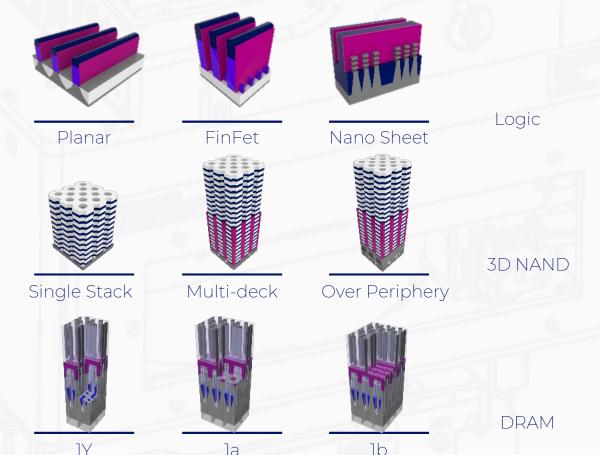
Scaled Devices •

3D Profiles ←

Multiple Parameters •

Thinner Films •

Packaging •



Scale & Complexity

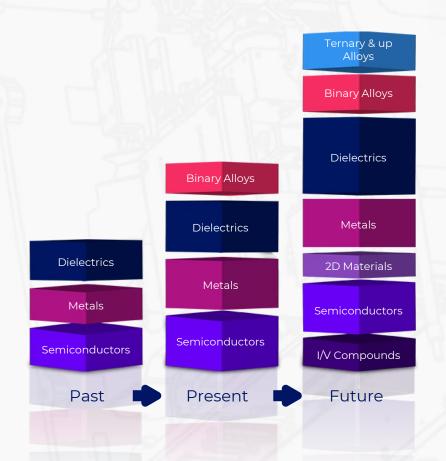




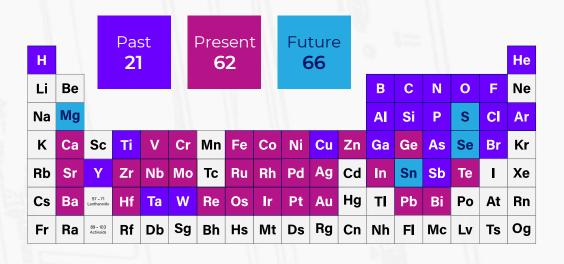
Materials Engineering

Beyond Moore's Law

Growth in IC Embedded Materials







La Ce Pr Nd Pm Sm Eu Gd Tb Dy Ho Er Tm Yb Lu

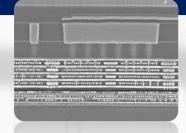
Np Pu Am Cm Bk Cf Es Fm Md No Lr



Driving Forces for Chemical Metrology

Front End
2015
2022
of interconnect steps 6 18
Material purity (PPM) 5 <=1
Monitoring frequency Hrs. Min.

Packaging20152022Device ComplexityFlip-Chip3D-ICOrganics to control310Analytic methodsX2X



Global Trends

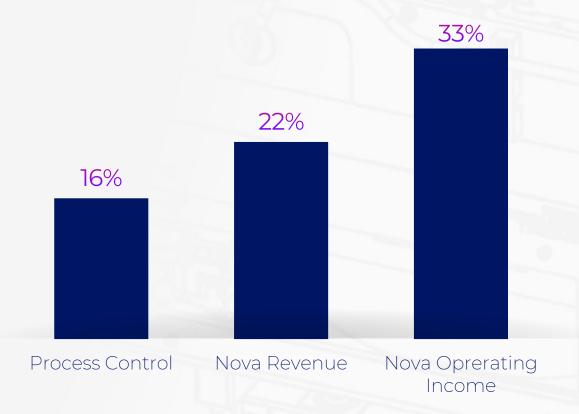
- Rising cost of chemicals
- Tighter environmental regulation
- → Rising waste treatment costs

A growing need for chemical metrology and process control



Outperforming the Market

5 Years CAGR



Outperforming Process Control CAGR by ~25%

> Operating Income Outgrows Revenue

> > >\$300M in Operating Cash Flow in 5 years

Estimated gross cash reserves by end of 2021 \$550M

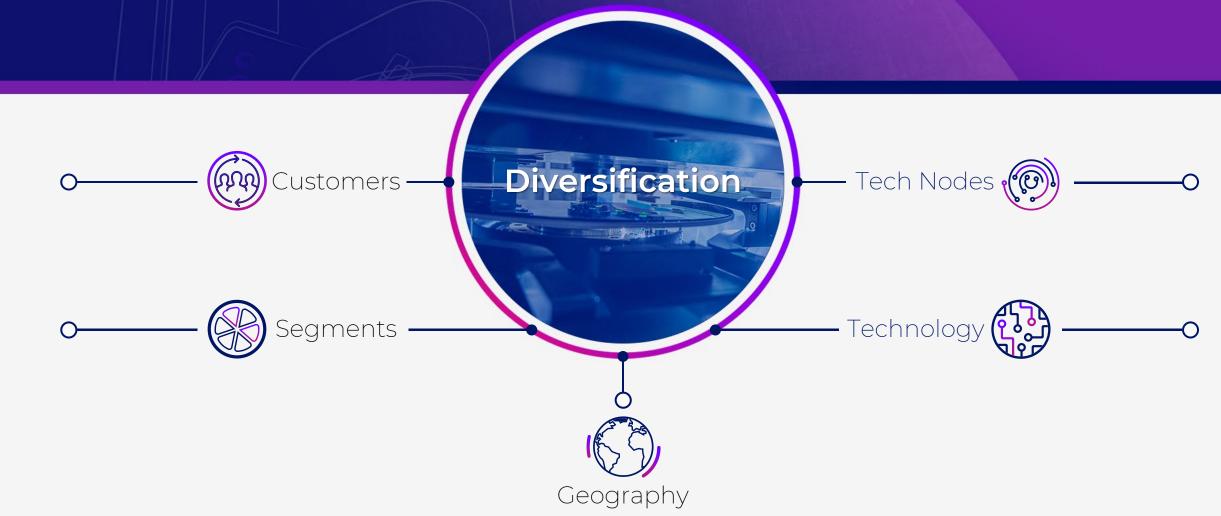
Source: Gartner research and company information Non-GAAP Financials; Nova revenue - product only, including Mid-guidance Q4 2021





Why Do We CONTINUE GROWING?

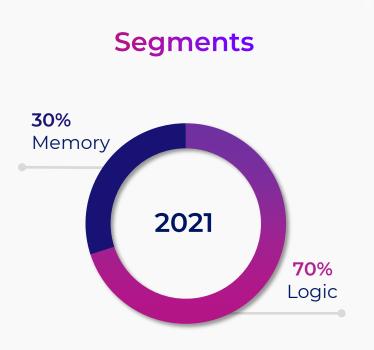
Increasing Market Share while Expanding TAM



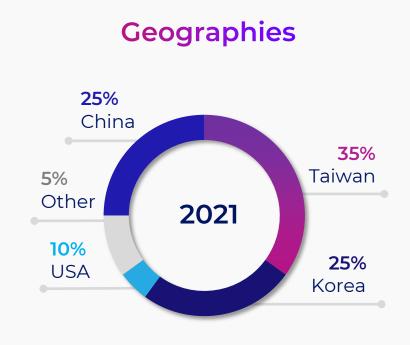




Diversification Across the Board











Organic Growth Engines



Differentiated Technology

Innovative Metrology
X-Ray-Optical Convolution



Physical and ML Algorithms

Data-Driven Solutions
Training and Prediction Capabilities



Service Revenue

Extendibility & Enhancement Value Added Services



Research Technologies

LAB to FAB

Total Addressable Market





Inorganic Approach

Search Guidelines



Early Access

Lab to Fab Technology



Materials

Leadership



Software Offering

Enhancement



Adjacent

Process Control Markets

Screening Elements

Top Line Synergy

> Complementary Technology

Operational Leverage (Accretion)

Diversification within Core Capabilities



Continuous Revenue Growth



*Mid-guidance Q4 2021

FinancialPerformance



Non-GAAP Financials

Note: Our non-GAAP measures are not meant to be considered in isolation or as a substitute for comparable GAAP measures and should be read only in conjunction with our consolidated financial statements prepared in accordance with GAAP, available on our website.



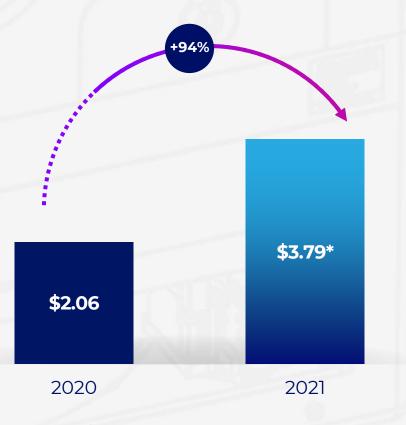
Financial Performance 2021 Annual Results

Continuous Revenue Growth



*Including Mid-guidance Q4 2021 Non-GAAP Financials

Earnings Per Share (Non-GAAP)



*Including Mid-guidance Q4 2021 Non-GAAP Financials

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Key Takeaways

Positioned for Continuous Growth



Growing demand for IC drives capacity & Increasing complexity
Increasing need for advanced metrology solutions



Unique and disruptive technology portfolio

Driving a stronger position and expanding TAM



Solid operational model

Supports clear strategy for growth



Proven performance towards Nova500

Outperforming the Industry



Cultural elevation with new CSR strategy

Combining business ethics with culture and social conciseness

Financial Target Model

Gross Margin

56%-59%

R&D Investment

15%-17%

Operating Margin

26%-29%

Non-GAAP Financials





