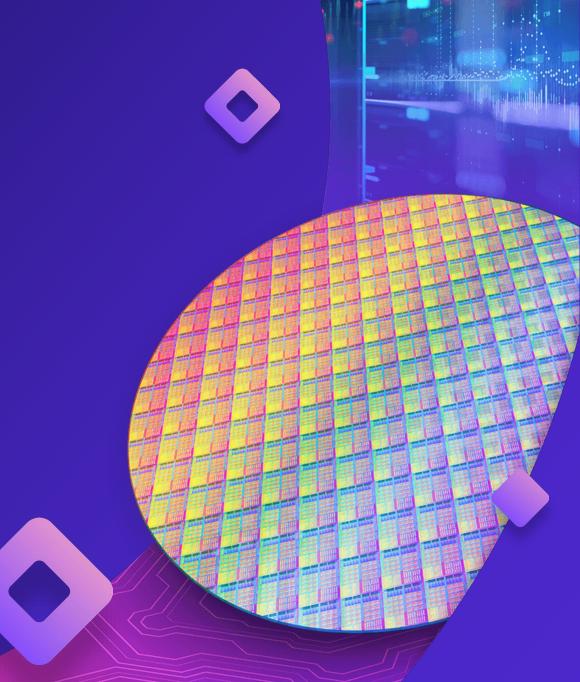


Investor Presentation

August 2024



NOVA

Use of Non-GAAP Adjusted Financial Measures

This presentation provides financial measures that exclude amortization of acquired intangible assets, acquisition-related expenses, inventory step-up and contingent consideration revaluation, stock-based compensation expenses, revaluation of operating lease liabilities and remeasurement of intercompany loans, 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

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 not limited to, anticipated growth opportunities and projections about our business and its future revenues, expenses and profitability. Forward-looking statements involve known and unknown risks, uncertainties and other factors that may cause our actual results, levels of activity, performance or achievements to differ materially from any future results, levels of activity, performance or achievements expressed or implied in those forward-looking statements..

foreign political and economic risks including supply-chain difficulties; regulations that could restrict our operations such as economic sanctions and export restrictions; changes in U.S. trade policies; indirect effects of the Russia – Ukraine conflict; market instability including inflation and recessionary pressures; risks related to doing business with China; catastrophic events; inability to protect our intellectual property; open source technology exposure, including risks related to artificial intelligence; failure to compete effectively or to respond predicting 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 lengthy sales cycle and customer delays in orders; risks related to conditions in organizations from the Gaza Strip and Israel's war against them; risks related to our convertible notes; currency fluctuations; and quarterly fluctuations in our 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, 2023, filed with the Securities and Exchange Commission on February 20, 2024. These registration statements with the Securities and Exchange Commission. Nova Ltd. does not assume any obligation to update the forward-looking information



Cautionary Statements



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







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



Revealing the Invisible

Actionable Insight, Critical Foresight

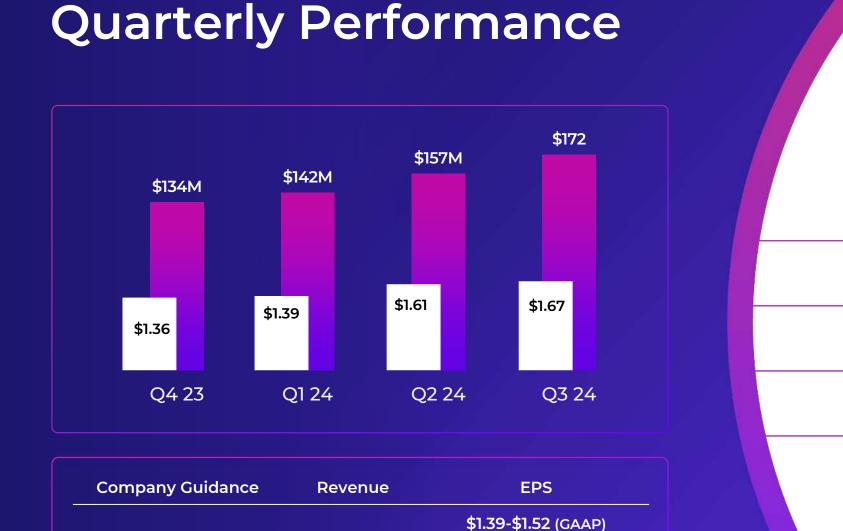




Solid Track Record

Outperforming the WFE by >50%





\$168 -\$176M

Q2 24 Highlights

- Record Revenue and profitability
- Record operating and free cash flow
- Record revenue for chemical metrology
- Record booking for Materials metrology and advanced packaging

Q3 2024

Non-GAAP Financials, Q3 2024 mid-guidance of company forecast

\$1.60-\$1.73 (non-GAAP)

Global Footprint, Diversified Exposure

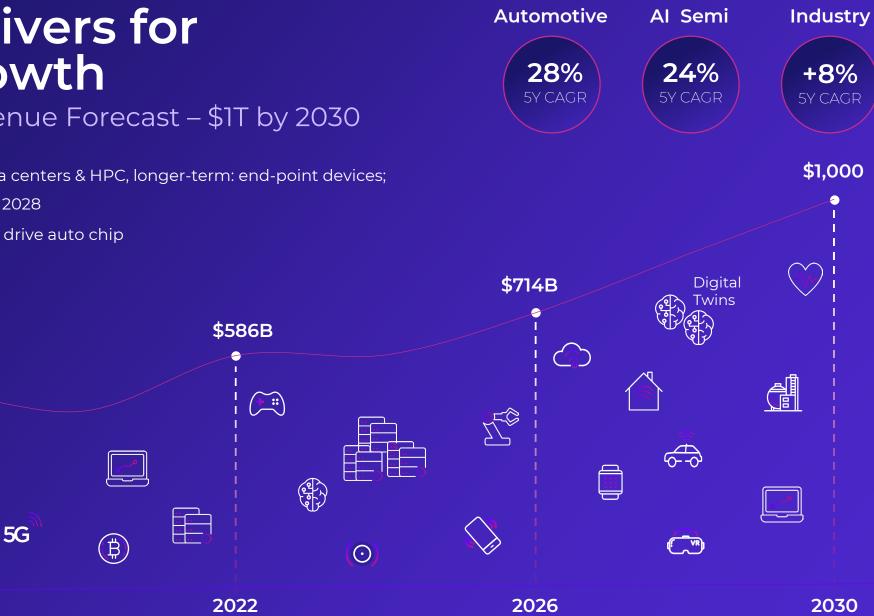
3 R&D and Production Centers



Multiple Drivers for Secular Growth

Semiconductor Revenue Forecast – \$1T by 2030

- Gen Al near-term drives data centers & HPC, longer-term: end-point devices; Revenues to reach \$159B by 2028
- ADAS, EV/HEV, Auto-HPC to drive auto chip Revenues >\$130B by 2031





\$342B

2016

Government Funding Drives Technology Advancement and Global Fabrication Footprint



10 © Nova proprietary information

Source: TechInsights, Dentons, SEMI, Jefferies

Next-Gen Dimensions Driven Opportunities

Scale and Complexity Drive Metrology Intensity



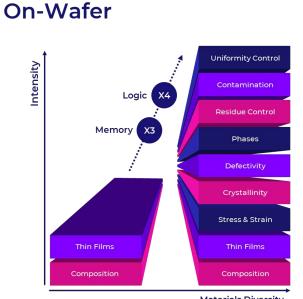
NOK

- Moving toward 3D architectures
- Higher count of interconnect layers

Next-Gen Materials Driven Opportunities

Materials Diversity Drives Broader Metrology Scope

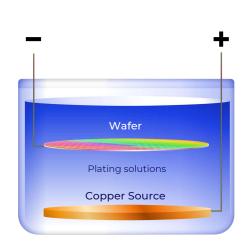
- New materials, new chemistries
- Composition, purity, stability
- Sustainability and waste management



Materials Diversity

- Uniformity & Residues
- Dielectric composition & thickness control
- Stress & strain on multiple nanosheets
- Doping control
- TSV filling

In-Bath



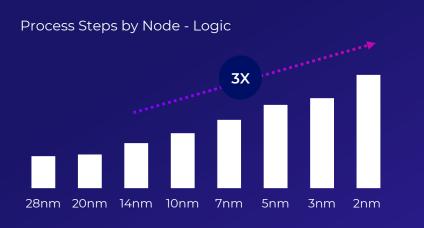
- Optimal plating
- Highly saturated bath management
- By-Products
- Contaminants and photoresist leach

NOV

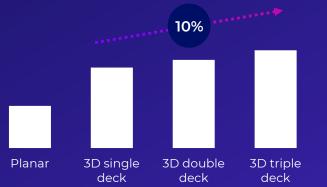


Increasing Complexity

Driving Higher Metrology Intensity



Process Steps by Node - NAND





Increasing complexity: +30% more metrology steps in GAA

Cost of a large 3nm fab: ~ \$25B, 3X of a 28nm fab

HBM3E consumes ~X3 wafer supply as DDR5

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Diversified Growth Engines

Increasing Share while Expanding TAM

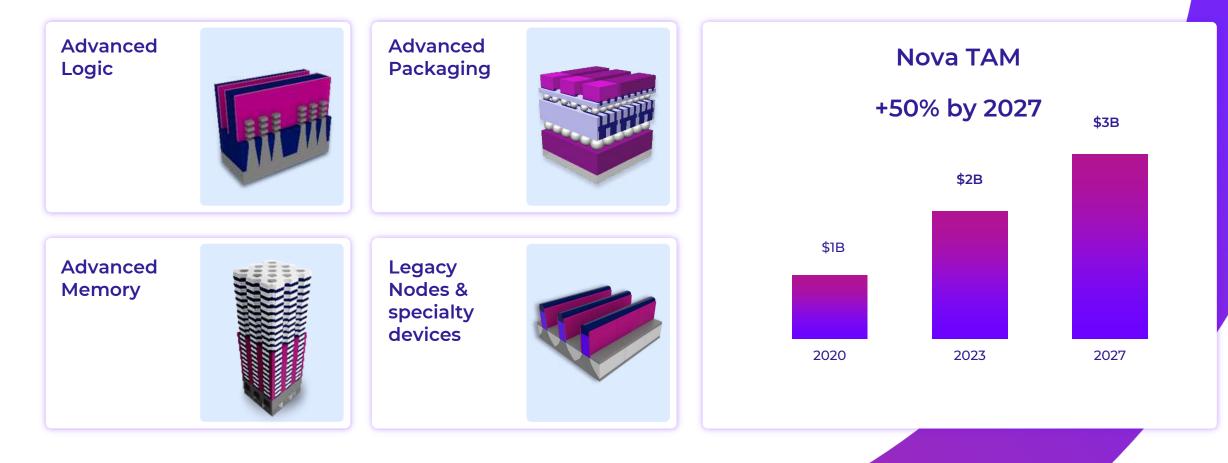






Expanding TAM

by Addressing Multiple Markets



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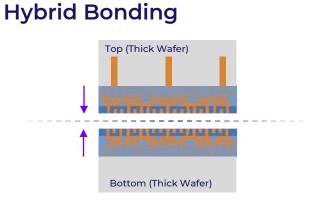
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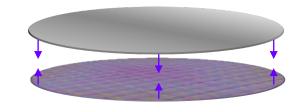
Source: Gartner, Company Estimations

Heterogenous Integration Driven Opportunities

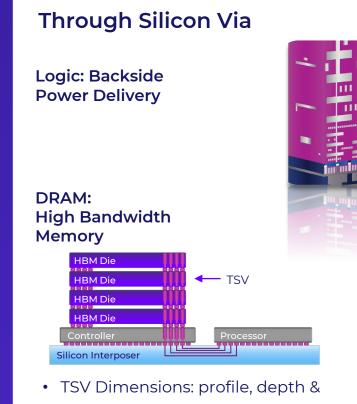
Continued Scaling Requires New Integrations

- Wide Adoption: Advanced
 Logic, HBM, 3D NAND, 3D
 DRAM & advanced packaging
- CMP process control critical for successful hybrid bonding





- Wafer edge profile
- Backside Thinning
- Cu dishing
- Through Silicon Via



- asymmetry
- TSV reveal
- TSV PR Patterning



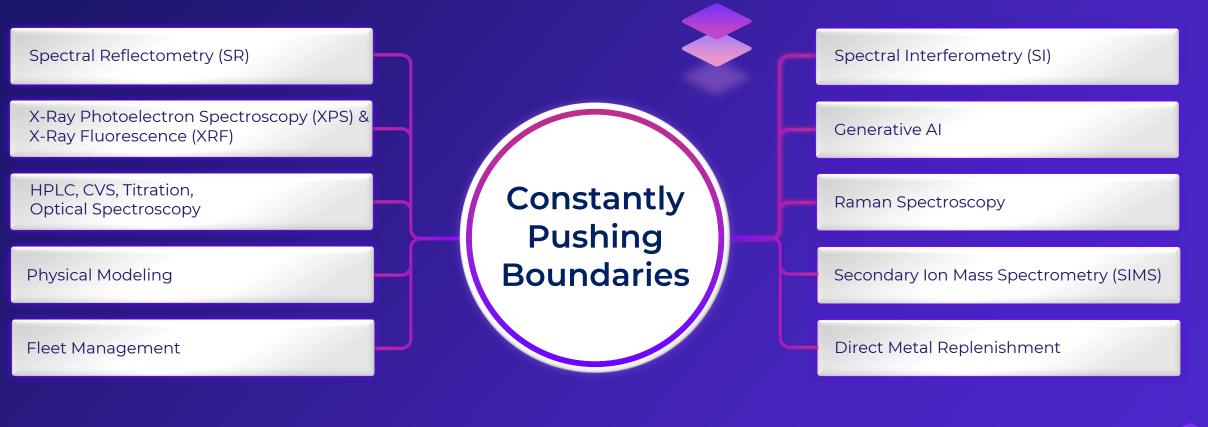


Non-GAAP Financials. 2024- Forecast



Core Technology

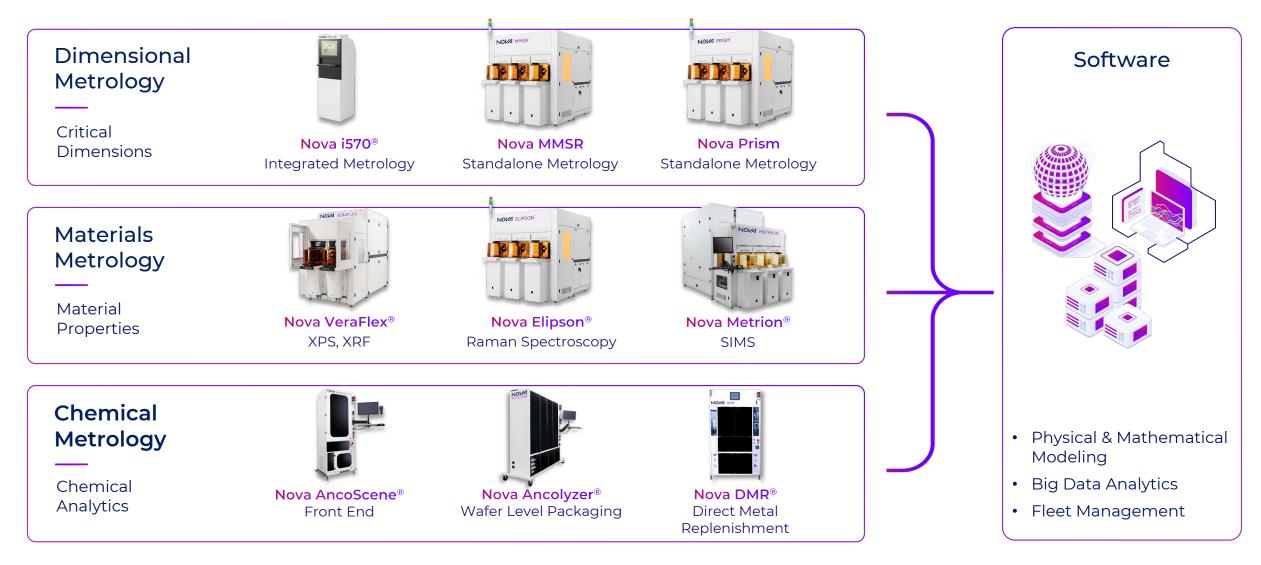








Rich Metrology Portfolio



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Leveraging Technology Differentiation

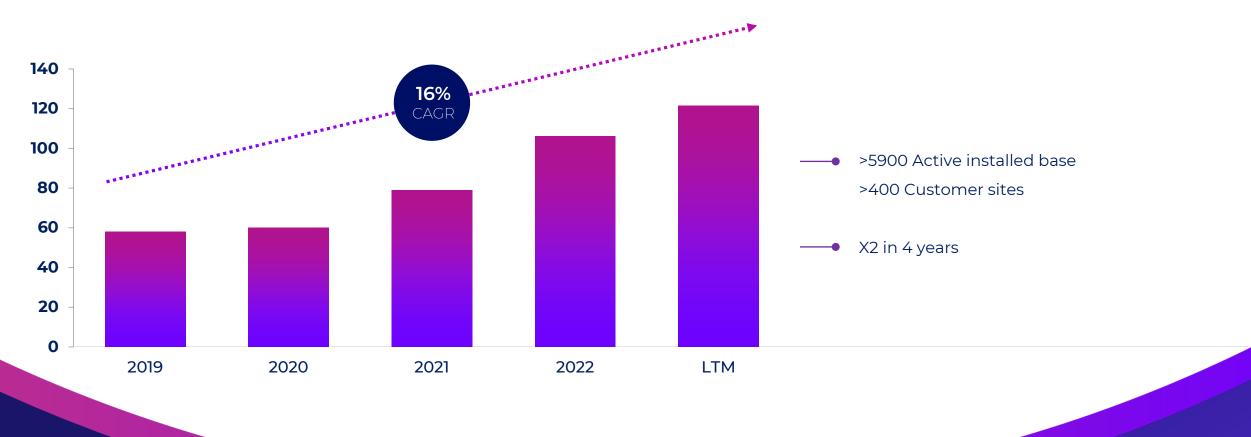
	Dimensional				Materials			Chemical		
	Integrated Optical CD	Stand alone Optical CD	Prism	VeraFlex® (XPS+SRF)	Elipson [®] (Inline Raman)	Metrion® (Inline SIMS)	AncoScene® Front-End	Ancolyzer® Wafer level packaging		
		NOW COL								
Gate-All-Around	•	•	•	٠	•	•	•	•	•	
Advanced Memory	•	•	•	•	•	•	•	•		
Hybrid Bonding	•		•	•		•		•	•	
High Bandwidth Memory	٠		•	٠	•		•	٠	٠	

• Qualified by customers to measure related applications



Service Revenue Engine

Targeting Double-Digit Annual Growth



Non-GAAP Financials, Company service revenue Last Twelve Months, CAGR 2019-LTM



Inorganic Approach Search Guidelines

Screening Elements



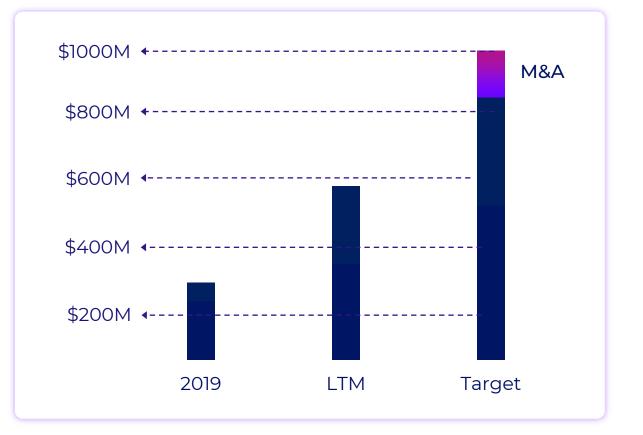


Nova \$1B Plan

Continuous Outperformance

- New Technologies Proliferation
- Chemical Analysis Growth
- Materials Metrology Leadership
- Diversified Markets
- Further M&A

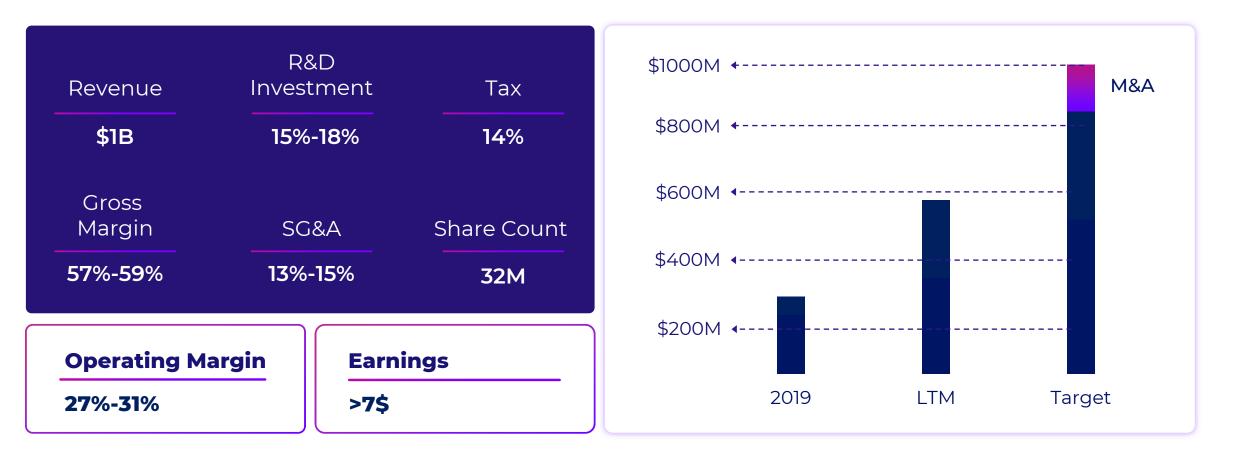
>\$750M Gross Cash Reserves Supporting Long-Term Growth





Financial Target Model

Organic



NOVX

Preparing For Next Cycle Opportunities



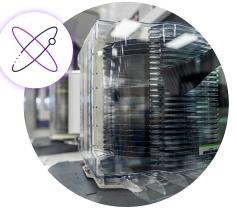


Tech Evaluations at Customer Sites



20 Evaluations in Process

R&D Plans On Track



16%

of Annual Revenue - Last 3 Years



Vs. 2022 capacity

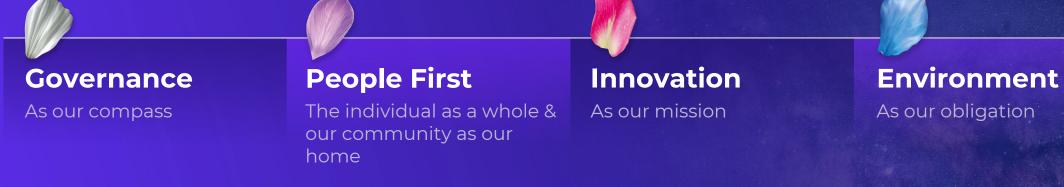
Our ESG Vision

To become an active influencer in creating a more sustainable and equitable future.

We believe in a pragmatic approach to interlace ESG practices across daily operations, including culture, products, business, supply chain, customers, R&D and manufacturing.

Our four Pillars

Our ESG strategy is built around four pillars- each with long-term goals and areas of focus. Annual planning and investments will align with these pillars



Nova's Priority ESG topics

Governance

- Governance compliance
- Data Privacy & cyber security
- Ethical business practices
- Product safety and quality
- Supply Chain and Procurement

Management

Social

- Talent Attraction & Retention
- Diversity, Equity and Inclusion
- Human capital development
- Occupational health and safety

Environment

- Environmental management –
- Energy, water, waste
- Carbon footprint and GHG emissions



Key Takeaways Positioned for Continuous Growth



Process complexity, new markets and geopolitics drive investments Increasing need for advanced metrology solutions



Unique, disruptive technology portfolio Stronger position, penetrating new segments. expanding TAM



Solid operational model Supports clear strategy for growth



Proven performance towards 1B\$ Outperforming the Industry



Clear ESG Vision and priorities Implemented across the organization

Financial Long-Term Target Model





Gross Margin

57%-59%

Operating Margin

27%-31%

Non-GAAP Financials





Thank You

