Preparing for the Future of Everything November 2021 Report

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Keys to Surviving and Thriving in Post - COVID-19 and Beyond

- "Self-sufficiency"
- "Assets and Liquidity"
- "Automation"
- "Virtualization"
- "Decentralization"
- "Analytics"
- "Exponential Thinking"



Macro Economic and Market Trends at A Glance

- \$1.2T Infrastructure Bill Passed
- Projected '4Q'21 Growth Reaccelerating
- Inflation is Increasingly Real
- Fed Accommodation Receding
- Supply Chain Disruption
- Lower Consumer Sentiment
- Ubiquitous Computing and Communications
- EV Market already More Valuable than ICE
- \$2T Human Infrastructure Bill?



The Economy at A Glance

Economic Metrics	
GDPNow ('4Q'21 Estimate)	8.2% 11/17/21 (Atlanta FRED)
Unemployment Rate	4.6% (BLS – Oct'21)
Employment Compensation	4.2% Y-O-Y (BLS – Sept'21)
Productivity	-5.0% (BLS – '3Q'21)
CPI	6.2% Annual Rate (BLS) (Oct'21)
10-yr US Treasury Interest Rate	1.681% (WSJ -11/23/21)
Federal Debt/GDP	125.5% (FRED – '2Q'21)
Retail Sales (Y-O-Y)	11.5% (US Commerce Dept. – 11/16/21)
Consumer Sentiment	72.8 (UofM– September'21)
Crude Oil Futures	\$78.74 (WSJ – 11/23/21)
Case-Shiller National Home Price Index	19.84% Y-O-Y (WSJ- Aug'21)
Real Residential Fixed Investment	-7.7% '3Q'21 Y-O-Y (Atlanta FRED)
Gold Futures	\$18.08 (WSJ – 11/22/21)
Copper Futures	\$4.39 (WSJ – 11/22/21)
US Dollar Index	96.50 (WSJ -11/22/21)
ISM Purchasing Managers Index	60.8% (ISM – October'21)



Real Inflation at A Glance

Category	October 2021 Monthly % Change
Food at Home	1.0%
Fuel Oil	12.3%
Electricity	1.8%
Utility (Gas Piped)	6.6%
New Vehicles	1.4%
Medical Care	0.6%
Shelter	0.5%

U.S. Bureau of Labor Statistics



Oil Supply at A Glance

Crude oil stocks (million barrels) more stock data >

	Year ago	Most recent
	11/13/20	11/12/21
U.S.	489.5	433.0
East Coast (<u>PADD 1</u>)	10.3	9.6
Midwest (<u>PADD 2</u>)	148.2	109.5
Cushing, Oklahoma	61.6	26.6
Gulf Coast (PADD 3)	260.8	242.6
Rocky Mountain (PADD 4)	24.5	23.7
West Coast (PADD 5)	45.7	47.6

Days of supply (number of days) more supply data >

	Year ago	Most recent	
	11/13/20	11/12/21	
U.S.	36.1	28.5	

Note: Days of Supply calculated as: U.S. crude oil stocks / Four-week average U.S. crude oil refinery input

Source: EIA



The Market at A Glance

Market Metrics	
DJIA	35,813 +17.01% YTD (WSJ – 11/23/21)
S&P 500	4,690 +24.88% YTD (WSJ – 11/23//21)
Nasdaq	15,775 +22.40% YTD (WSJ – 11/23/21)
S&P 500 Forward P/E	21.4 (S&P FactSet – 11/19/21)
S&P 400 Forward P/E	16.9 (Yardeni Research – 11/19/21)
Current Est. '3Q'21 S&P 500 EPS	39.6% Y-O-Y (S&P FactSet – 11/19/21)
Current Est. '3Q'21 S&P 500 Rev. Growth	17.8% Y-O-Y (S&P FactSet – 1119/21)
Current Est. '3Q'21 S&P Profit Margin	12.9% Blended (S&P FactSet – 11/19/21)
Current Est. Financials '3Q'21 EPS	35.2% Y-O-Y (S&P FactSet – 11/19/21)
Current Est. Healthcare '3Q'21 EPS Growth	29.2% Y-O-Y (S&P FactSet – 11/19/21)
Current Est. Energy '3Q'21 Revenue Growth	74.3% Y-O-Y (S&P FactSet – 11/19/21)



U.S. Equities at A Glance

U.S. Sectors (11/22/21)

ETF or ETN	Today	1 Mths	1 Yr	YTD
Basic Materials XLB	0.2%	4.5%	26.5%	22.0%
Communication Services XLC	-1.2%	-2.5%	24.5%	18.1%
Consumer Discretionary XLY	-0.3%	10.8%	36.8%	31.5%
Consumer Staples XLP	0.8%	2.3%	7.7%	6.8%
Energy XLE	1.8%	-5.8%	51.9%	44.2%
Financial Services XLF	1.4%	-2.2%	42.3%	32.4%
Healthcare XLV	-0.5%	3.3%	21.9%	17.2%
Industrial XLI	0.3%	2.1%	20.9%	19.4%
Real Estate XLRE	-0.5%	3.7%	29.6%	31.9%
Technology XLK	-1.1%	7.9%	41.2%	31.8%
Utilities XLU	0.6%	2.2%	5.9%	7.3%

Source: Seeking Alpha



Infrastructure Bill at A Glance

\$1.2T Infrastructure Spending:

- \$110B for roads and bridges
- \$66B for passenger and freight rail
- \$65B to expand internet access
- \$55B to modernize the electric grid
- \$55B for water infrastructure
- \$39B for public transit project
- \$25B for airport upgrades
- \$7.5B EV charging stations



Ubiquitous Computing and Ambient Intelligence at A Glance

- Convergence of digital and communications is driving digital business using multi-cloud and multi-edge communication infrastructure.
- At <u>Ignite 2021</u> Satya Nadella, Microsoft CEO said, "we're moving from a mobile and cloud era to an era of ubiquitous computing and ambient intelligence."
- Cloud growth will remain robust next year on already large numbers. Public cloud services forecast on end-user spending will reach \$482 billion in 2022, up from \$396 billion in 2021 for growth of 21.7%.
- By 2026, Gartner predicts public cloud spending will exceed 45% of all enterprise IT spending, up from less than 17% in 2021.
- Hyper-connected businesses a "business process transformation"
 where supply and demand is informed by data and AI to help improve
 outcomes, such as the supply chain issues the market has experienced
 this year.
- Strong end-to-end security to help every organization strengthen its defense through the zero trust architecture built on end-to-end solutions that span all clouds and all platforms.
- The Worldwide Semiconductor Market is expected to show an outstanding growth of 25.1 percent in 2021. For 2022, the global semiconductor market is projected to grow by 10.1 percent to US\$ 606 billion, driven by a double-digit growth of the Memory category.



Cloud Ubiquity at A Glance

- Today, the cloud underpins most new technological disruptions, including <u>composable business</u>, and has proven itself during times of uncertainty with its resiliency, scalability, flexibility and speed.
- Hybrid, multicloud, and edge environments are growing and setting the stage for new distributed cloud models.
- In addition, new wireless communications advances, such as 5G R16 and R17, will push cloud adoption to a new level of broader, deeper and ubiquitous usage. Use cases such as enhanced mobile banking experiences, EV, IOT, AR/VR, Metaverse and healthcare transformation will also emerge.
- Gartner expects the broad adoption of fully managed and artificial intelligence (AI)-/machine-learning (ML)-enabled cloud services from hyperscale CIPS providers. This will rapidly eliminate the operational burden of traditional I&O roles in the public cloud.



Cloud Ubiquity at A Glance

Table 1. Worldwide Public Cloud Services End-User Spending Forecast (Millions of U.S. Dollars)

	2020	2021	2022
Cloud Business Process	46,066	51,027	55,538
Services (BPaaS)			
Cloud Application	58,917	80,002	100,636
Infrastructure Services (PaaS)			
Cloud Application Services	120,686	145,509	171,915
(SaaS)			
Cloud Management and	22,664	25,987	29,736
Security Services			
Cloud System Infrastructure	64,286	91,543	121,620
Services (IaaS)			
Desktop as a Service (DaaS)	1,235	2,079	2,710
Total Market	313,853	396,147	482,155

BPaaS = business process as a service; laaS = infrastructure as a service; PaaS = platform as a service; SaaS = software as a service Note: Totals may not add up due to rounding.

Source: Gartner (August 2021)



The Intelligent Edge at A Glance

- The global edge computing market size was valued at USD 4.68 billion in 2020 and is expected to expand at a compound annual growth rate (CAGR) of 38.4% from 2021 to 2028.
- Edge computing introduces a great level of business complexity, as it requires an extensive range of stakeholders for IT infrastructure, connectivity, application development, traffic delivery, and service management. Edge also brings together hardware and software solutions and networking architecture that address the vast number of use cases pursued across several industry verticals. As the technology is still in the early stages of development and its implementation and operational models are yet to mature, an edge is likely to create vast growth opportunities for new entrants in the near future.
- One major communications chip supplier is forecasting their TAM to grow 7X from 2021 to 2030



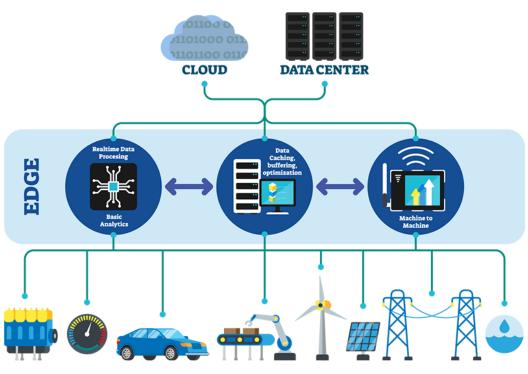
The Intelligent Edge at A Glance





The Intelligent Edge at A Glance

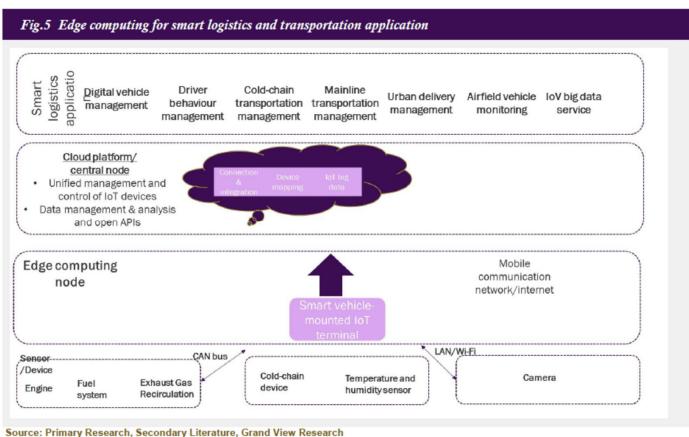
Edge Computing



INTERNET OF THINGS



The Intelligent Edge - Logistics **Transportation** at A Glance



We help clients build sustainable wealth with more certainty

- By creating sustainable financial plans
- Through building more sustainable wealth accumulation and distribution
- To achieve financial security and peace of mind

We utilize a thoughtful but practical approach

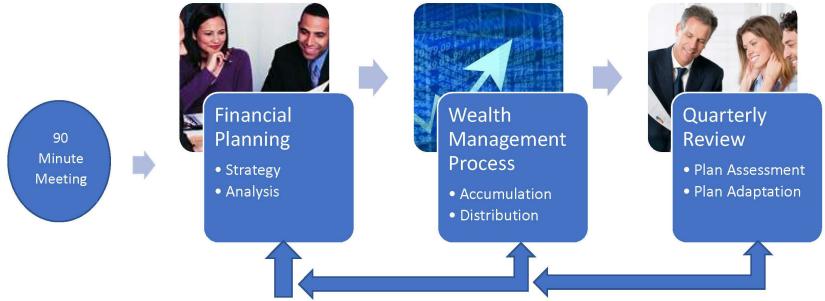
- Using a proven 360° financial planning-wealth management process
- Employing 60 years combined professional experience
- To achieve client financial goals with more certainty and with less risk



About NPB Financial Group	How We Can Help You	About Us
Here at NPB Financial Group, LLC., we are	• Strategies to Build a More Sustainable	C. Brian Conners, MBA, CFP® and Maureen
dedicated to you, your financial goals, and	Lifestyle	Tsu, MBA, CFP® are Certified Financial
your financial planning and wealth	• Strategies to Avoid Outliving Your Money	Planners (CFP) and fee-based
management needs.	 Planning Strategies for Securing and 	Investment Advisor Representatives with
	Protecting Your Family's Welfare	NPB Financial Group, LLC, a broker-dealer
NPB Financial Group, LLC is a broker-dealer	A More Sustainable Retirement with	and member FINRA, MSRB and SIPC. NPB
and member FINRA, MSRB and SIPC. The	More Certainty	Financial Group is registered with the SEC as
Company conducts retail securities business	 Accomplish Your Goals with Less Risk 	a registered investment advisor and a life
in forty-five states, with branch offices in	 Strategies to Pay for Your Children's 	insurance agency.
Arizona, California, Idaho, Nevada, North	Education	
Carolina and Utah. The Company is	Strategies to Leave Your Legacy to your	Brian and Maureen have combined 60 plus
registered with the SEC as an Investment	Loved Ones	years of financial planning and wealth
Advisor and a life agency.	A Guide to Accomplish Your Dreams	management experience

A Proven Process for Building Sustainable Wealth with More Certainty

Our purpose of investing is to "Grow savings at a rate which maintains the same purchasing power parity in the future and provides a stream of living income."



About Us
About You
Data Gathering
Goal Definition
Financial Concerns
Risk Assessment

360 Assessment
Goal Accomplishment Probability
Goal Sustainability Needs
Financial Plan Strategy
Financial Plan Stress Tests
"What If" Scenarios
Recommendations
Presentation

Risk-Reward Assessment
Portfolio Construction & Modeling
Investment Portfolio Design
Portfolio Risk Analysis
Accumulation Strategy
Income Distribution Strategy
Investment Selection
Portfolio Asset Management

Investment Portfolio Review
Financial Plan Assessment
Goal Probability Analysis
Investment Portfolio Risk Analysis
Financial Plan Adaptation
Financial Plan Implementation
Investment Portfolio Modification

"Planning Today for Tomorrow's Changes"

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