# A WORLD OF BEST PRACTICES

FOR THE ELECTRONIC COMPONENTS INDUSTRY

October 19, 2020





### Agenda:

- 1. ECIA Update David Loftus, ECIA President and CEO
- NA Electronic Component Sales Trends and COVID-19 Dale Ford, ECIA Chief Analyst
- 3. Sales Interacting with Business Partners and Customers Russ Dzielak, Director of Channel & Key Accounts, Phoenix Contact
- 4. Design Registration Study Update Don Elario
- Paperless Manufacturer COC Update Phil Fraser, Distribution Sales Director, Analog Devices Inc and Pete Shopp, SVP Business Operations, Mouser Electronics
- 6. Listing Authorized Distributors and Manufacturer Reps on Manufacturer's Websites Victor Meijers, ECIA SVP
- 7. Compliance & Risks Webinar Don Elario
- 8. Competitive Insights Webinar Don Elario
- 9. Join our SME Pool in Q4 as we head into 2021



### <u>Global Industry</u> Practices <u>C</u>ommittee

## **ECIA**

## with

David Loftus ECIA President and CEO





## **COVID-19: The Numbers & Impact**

Dale Ford – Chief Analyst October 19, 2020





# A Whipsaw Disaster That Required a Nimble Response

Connect. Influence. Optimize.







Connect. Influence. Optimize.





Connect. Influence. Optimize.





Connect. Influence. Optimize.





Connect. Influence. Optimize.

## Best Practices Development – Industry Intelligence The Human Version of AI





## Connect. Influence. Optimize.

## Electronic Component Revenue Growth



## Connect. Influence. Optimize.

## IHS Markit U.S. Manufacturing PMI – October

### Key Results

## Strongest improvement in operating conditions since January 2019

- Overall growth was supported by a faster expansion in production and a solid rise in new orders.
- Contributing to the overall upturn was a quicker rise in output at the end of the third quarter. The rate of growth was the sharpest for ten months and solid overall.
- Greater new sales led to further pressure on capacity at manufacturing firms. As a result, companies registered a second monthly rise in backlogs of work.
- Input buying remained modest in September. Although firms expanded their purchasing activity, supplier delays and the use of stocks in production led to a renewed contraction in pre-production inventories.





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## **Economic Risk Factors**

### **Economic Confrontations Between Major Powers**

- World trade in manufactured goods has more than doubled between 2000 and 2017—from \$4.8 trillion to \$12.2 trillion. The U.S. share of world trade in manufactured goods has grown from 7.6% in 2002 to 8.7% in 2017. (Source: World Trade Organization)
- Globally Weak Investment Due to Low Expected Returns, Uncertainty About Economic Policy

### **Small Business Health**

- The majority of manufacturing firms in the United States are quite small. In 2017, there were 248,039 firms in the manufacturing sector, with all but 3,914 firms considered to be small (i.e., having fewer than 500 employees). In fact, three-quarters of these firms have fewer than 20 employees. *(Source: U.S. Census Bureau, Statistics of U.S. Businesses)*
- Unemployment and State Lockdown Orders

### **Energy Shocks**

• Manufacturers consume more than 30% of the nation's energy consumption. Industrial users consumed 32.3 quadrillion Btu of energy in 2018, or 32.3% of the total. (*Source: U.S. Energy Information Administration, Annual Energy Outlook 2019*)

### **Societal and Political Turmoil**

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## **GDP** Forecast Scenarios

### Scenarios have evolved over time

V - Shaped

U - Shaped

Bathtub - Shaped

- Pi ( $\pi$ ) Shaped
- W Shape

A collapse in output followed by a slow recovery World GDP, index 2019-Q4w100

106 In both scenarios, we won't be back at 2019-Q4 level for at least 2 years



"A Crisis Like No Other, An Uncertain Recovery" - IMF

The Swoosh Scenario

- Conference Board

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		PROJECTIONS		
(real GDP, annual percent change)	2019	2020	2021	
World Output	2.9	-4.9	5.4	
Advanced Economies	1.7	-8.0	4.8	
United States	2.3	-8.0	4.5	
Euro Area	1.3	-10.2	6.0	
Germany	0.6	-7.8	5.4	
France	1.5	-12.5	7.3	
Italy	0.3	-12.8	6.3	
Spain	2.0	-12.8	6.3	
Japan	0.7	-5.8	2.4	
United Kingdom	1.4	-10.2	6.3	
Canada	1.7	-8.4	4.9	
Other Advanced Economies	1.7	+4.8	4.2	
Emerging Markets and Developing Economies	3.7	-3.0	5.9	
Emerging and Developing Asia	5.5	-0.8	7.4	
China	6.1	1.0	8.2	
India	4.2	-4.5	6.0	
ASEAN-5	4.9	-2.0	6.2	
Emerging and Developing Europe	2.1	-5.8	4.3	
Russia	1.3	-6.6	4.1	
Latin America and the Caribbean	0.1	-9.4	3.7	
Brazil	1,1	-9.1	3.6	
Mexico	-0.3	-10.5	3.3	

#### Source: IMF



DOM: NO OTHER DOM: NO. 1

## The Trade Winds are Shifting

- **On-Shoring** ۲
- **Re-Shoring** ۲
- **Near-Shoring**
- Sure-Shoring ۲

**Electronics Component U.S. Import Revenue Share** 100% 100% 80% 70% 60% 50% 40% 30% 70% 10% 0% 1998 2004 2007 2010 2016 2017 1997 1995 2001 2013-01/2018 2000 2003 2006 2009 2012 2015 1994 1997 China Mexico elapán Taiwan Vietnam Korea South Germany Canada Philippines Other Countries Molecula

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### **Electronics Component Imports to the U.S.**

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## Thank you!

Dale Ford – Chief Analyst dford@ecianow.org





## Sales Interacting with Business Partners and Customers

with

**Russ Dzielak** 

**Director of Channel & Key Accounts** 

**Phoenix Contact** 





### **Sales Interacting with Business Partners and Customers**

#### **Project Objective:**

To provide areas for consideration and best practices for how manufacturers, distributors and manufacturer's representatives in the electronic component industry can safely and effectively adapt their selling organizations in response to the Covid-19 pandemic using a combination of remote customer engagement policies and strategies along with guidance regarding face to face selling activities and other external stakeholder meetings.

#### Work Group:

AVX Catalyst Unity Solutions ON Semi Phoenix Contact Sager Electronics TTI



#### **Project Deliverables:**

- Best practices document highlighting "areas for consideration" published in June 2020
- Work group continues to meet periodically to review and monitor the pandemic and ever-changing guidelines
- Work group will determine the best time to publish a follow-up document

April May June – Ongoing...

## Design Registration Project

with

Don Elario

**ECIA VP Industry Practices** 





### **Design Registration Study Acknowledgements**

Sponsor by: Manufacturer's Council

Supported by: ECIA, ERA, GEDA, Distributor's Council, Manufacturer's Representative Council, Executive **Steering Committee** 

Legal Guidance by: ECIA COO and General Council – Robin Gray

#### Work Group: 14 Companies

Avnet AVX Future Kruvand Maxim Mel Foster Company Molex Murata NXP ON Semi RFMW TE Connectivity TTI Vishay



#### 44 Companies who participated in the survey:

☆ Project Co-Leaders

#### Manufacturer Design Registration Study Process – Timeline

Manufacturer Design I	Registration Stu	Jdy Process -	- Timeline					logy allowed us to do	
	troductions Submit completed survey to Vault for confidential		etedrefined and converted to mostly closed-ended."surveyWork group follow up with Part 2 survey adjustmentssurveyFinal preparations and			b	research that is not just academic but based on the inputs of those personally engaged with Design Registration."		
Design Registration Kick-off, Introductions In/Out of Scope and Survey Questions – Group Exercise					Complete Master Index of Survey Data and Information Work group review process Building Best Practice Document and Executive Summary		Final review of deliverables: 1. Master Index 2. Best Practice Document 3. Executive Summary		
Jun	Ju	ll,	A	ug	0	Oct	D	)ec	
iy						We are Here	<u>♦</u>		Ja
20									20
	Jun	A	ug	S	ер	N	ον	Jan	
sitioned to dress this	Proup review, final petermine if changes are part 2 – Ider global compa		t 1 survey Part 2 survey work group and additio identified (5 needed Part 2 survey needed Part 2 survey target of Se anies and Bogin properties		ey completion eptember 30		ts of Best ument and ummary	Presentation of Ph deliverables Executive Steering Committee ECIA Board & Cour	g
estions.		Work group members to assist in recruiting companies		Begin preparation for Master Index of Survey Data and Information		"Three sub-groups, MFG, MFG Rep, Distributor will identify key observations, best practices and comparisons across the 3 groups."			

survey completed on Oct 7."

Manufacturer Design Registration Study

Phase 1 Research Complete, Analysis and Building Deliverables – Work In Progress

1. Master Index of Survey Results

Graphs, Charts and Commentary

2. Best Practice Document

Highest Rated Survey Results and Work Group Analysis

"This study has required commitment, dedication and hard work to get it to this point and now, with the research complete...its time to transcribe our deliverables."

Key Observations and Comparisons from Work Group

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## Paperless Manufacturer COC

with

**Phil Fraser** 

Distribution Sales Director, Analog Devices Inc.

Pete Shopp

SVP Business Operations, Mouser Electronics





### **Digital Transfer of Manufacturer Certificate of Compliance**







### **A Paperless Process**

#### Industry Benefits:

Create a streamlined process to digitally exchange compliance documentation such as manufacturers certificate of compliance. The industry benefits will be improved efficiency for the exchange of documents, reduction in costs associated with the current manual, paper driven process and improved visibility and availability of information.

#### Goal:

- Organize a working group comprised of 2 manufacturers, 2 distributors.
- Design architecture to embed compliance documentation into a 2D barcode: process flow to start with manufacture to distributor to customer.
- Implement pilot with working group participants.
- Create final process documents for industry release.

#### Key Outputs/Metrics:

- Final process documents for industry publication and use.
- Pilot results for publication when completed.
- ROI examples and/or estimates for industry publication.

#### Financial Considerations:

- ROI impact for Manufacturer (TBD)
- ROI impact for Distributor (TBD)

#### **Project Timeline:**

April 2019 - April 2020

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#### **Problem Statement:**

There is only a manual, paper driven process today for the transfer and exchange of compliance documentation in the electronic component supply chain. This drives unnecessary administration costs with manufacturers, distributors and customers and service dissatisfaction through-out the supply chain.

#### Assignment Scope:

Start with the manufacturers certificate of compliance.

Consider other compliance documents that would enhance the offering, but would not complicate or slow down the initial target of embedding manufacturers CofC into 2D labeling process flow.

Phase 1 = 1 Manufacturer Documents to 1 Distributor

Phase 2 = Multiple Manufacturers and Distributors Implemented

Phase 3 = Distributors Internalize Documents for Delivery to End Customers

#### Project Team:

Sponsors – Phil Fraser, ADI and Pete Shopp, Mouser Electronics Leaders – Selinna Chen, ADI and Kendra White, Mouser Electronics Contributor – Andy Verb, Brien Fennell, Bar Code Graphics, Inc.







### **Return on Investment Manufacturer & Distributor**







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### **Digital Transfer of Manufacturer Certificate of Compliance**



## Listing Authorized Distributors and Manufacturer Reps on Manufacturer Websites

with

Victor Meijers

ECIA Sr. Vice President





### Listing Authorized Distributors and Manufacturer Reps on Manufacturer Websites

#### **Project Objective:**

Research electronic component manufacturer websites to find best practice examples for locating/listing authorized distributors and manufacturer representatives.

#### Work Group:

Digi-Key Mouser Electronics TTI WPG – Americas EBM-PAPST Kemet Littelfuse Rohm Semiconductor Tech-Trek AEM Group



#### **Project Deliverables:**

- Best practices document highlighting "areas for consideration" for publication
- 2. Reference best practice examples of manufacturer websites identified by the work group
- Podcast with a work group member and a manufacturer website representative
- 4. Marketing plan to drive industry awareness and future adoption.

October	>	>	November	>	>	December	
			Project Timeline 2020				

#### ECIA Announces Compliance & Risks Webinar October 15

Atlanta, GA – ECIA welcomes <u>Compliance & Risks</u>' Louise Forrest who will present an update on some of the most important component industry-specific regulatory concerns. <u>The webinar will take</u> <u>place Thursday October 15 at 11:00 Eastern</u>. Louise will shed light on:

- SCIP (Substances of Concern in Products) database with the European Chemical Agency scheduled for implementation January 5, 2021. Is your company ready?
- Update on RoHS exemption renewals
- Status of RoHS Pack 15 (potential new RoHS substances)
- Brief update on EU Conflict Minerals rule coming into force in 2021
- Global impact from COVID-19 on regulatory and compliance deadlines and regional impact around the world
- Regulatory and compliance challenges coming with IOT 20 billion connections in 2020 and expected growth to 65-70 billion connections by 2025

Louise Forrest has led C&R's Global Regulatory Compliance team for the last five years and was featured on a <u>June Channel Channel Podcast</u>. Compliance & Risks creates business advantages for clients by providing reliable legislative information, insights and actions through C2P, a compliance knowledge management software platform, consulting, market access, managed services and other solutions. The company is recognized as the end to end global regulatory solutions provider across the technology, consumer goods and retail, industrial goods and life sciences sectors.

"This webinar will bring a wealth of targeted and concise information to our members about what they need to know to comply with the accelerating number of regulations affecting the electronic component industry," commented Don Elario, ECIA Vice President of Industry Practices. "I encourage anyone with responsibility for this area to listen to Louise's presentation."

<u>Click here to register.</u> Registration for this webinar is open to members and non-members.

Global Industry Practices Committee (GIPC)







#### Supply Chain Risk Management - Competitive Insights

Thursday, October 22, 20201:00 PM - 2:00 PM EDT Category: Webinar

Competitive Insights, LLC enable companies to gain maximum value through specific, precise and actionable insights across the organization for smarter growth...

Supply Chain Risk Management: Handling Disruptions Today and Tomorrow The COVID-19 pandemic has exposed many supply chain related resiliency issues, ranging from shortages in product availability to meeting surges in demand. Because the supply chain issues are so visible and affecting so many companies adversely, shareholders and stakeholders will require companies aCompetitive Insights continuously enhances the visibility for smart growth with innovative advanced analytics, improvements in streamlining data governance and better functionality for business users to make datadriven decisions. nd their supply chain executives to demonstrate an active, effective and ongoing Supply Chain Risk Management (SCRM) program. What will be the next disruptive event? Are you ready?

You are invited to attend a very interactive presentation by Richard Sharpe, CEO of Competitive Insights, and gain key takeaways to make smarter and more targeted SCRM decisions, both reactive and proactive.

Learn how effective SCRM analytics enables companies to add measurable resiliency to their operation while, at the same time, protecting profit and shareholder and stakeholder investments.

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Supply Chain Risk Insights mitigating supply chain disruptions to protect profits





#### **Why** (Participate in the GIPC or a Subject Matter Expert pool?)

- > Opportunity to Influence
- Impact <u>Your Company's</u> Efficiencies and Standardization through Best Practice Awareness
- Collaborate on Common Challenges and Obstacles in <u>Your Area of Expertise</u>
- Industry Networking
- > Take Advantage of this Talent Development Platform

### Set Up Your Profile and...

- Join our Quarterly GIPC update webinars
- Receive group emails with news and project activity



Sign-up for the SME resource pool in Q4...



Teri Ivaniszyn – VP Operational Excellence, Digi-Key Chair Dawn Manhart – Director Global Sales Operations, Littelfuse Past Chair Melanie Pizzey – VP Global Business Operations, TTI Pete Shopp – SVP Business Operations, Mouser Electronics Tom Griffin – President, Catalyst Sales Kimberly Appleton – SVP Global Sales Operations, ON Semi Russ Dzielak – Director of Channel & Key Accounts, Phoenix Contact Victor Meijers – SVP ECIA Don Elario – VP Industry Practices ECIA



GIPC

Competitive Insights: Business Operations – Supply Chain Risk Management webinar with CEO Richard Sharpe on October 22 Compliance & Risk: Environmental Compliance, Quality – Webinar with Louise Forrest to cover regulatory/compliance trends on October 15 Manufacturer COC Paperless Process: Logistics Services – IT Project – ADI and Mouser will speak about expanding implementation and ROI Design Registration: Business Operations – Phase 1 of the project is coming to an end; organizing deliverables to be published Sales Interacting with Business Partners and Customer: GIPC – Work group continues to meet and monitor areas for consideration SME Resource Pool – Updating our SME resource pool in Q4 as we head into 2021 GIPC Quarterly Update: Next call scheduled for Monday, January 18, 2021

\*Updated October 2020

### **Global Industry Practices Committee (GIPC)**



















### **Global Industry Practices Committee (GIPC)**