EIPC NEWS

EIPC @ CPCA Shanghai 25-27 August 2020
EIPC Members exclusive service!

We are pleased to announce that the EIPC will be present with a booth at the CPCA show in Shanghai from August 25-27.

If you want to increase your visibility, we offer to display leaflets on the EIPC booth exclusive to EIPC members. We also offer the possibility to place a poster on the EIPC booth. For more information please contact the EIPC office, Email: eipc@eipc.org

The European Institute for the PCB Community

EIPCSPEeDNEWS

Issue 20 –– August 2020

NEWS FROM GERMANY

Schweizer Electronic AG: Preliminary results for the first half of 2020 and adjustment of the forecast for the current financial year

- **Decline in sales still within rather pessimistic expectation**
- **EBITDA ratio -12.4 per cent below expectations**
- **2020 forecast adjusted downwards**

Due to the effects of the COVID-19 pandemic, preliminary figures show that SCHWEIZER's business performance in the first half of 2020 was significantly weaker than in the previous year. According to preliminary figures, the SCHWEIZER Group achieved consolidated sales of EUR 45.4 million in the first half of 2020 (1st HY 2019: EUR 60.2 million). This corresponds to a decrease of -24.7 per cent. EBITDA (earnings before interest, taxes and depreciation) amounted to EUR -5.6 million in the first half of the year (1st HY 2019: EUR +1.0 million). The EBITDA ratio is therefore -12.4 per cent (1st HY 2019: +1.7 per cent). EBIT (earnings before interest and taxes) amounted to EUR -9.5 million according to preliminary figures (2019: EUR -2.3 million). This includes non-recurring effects, in particular from the restructuring of EUR 1.1 million.

Production started at the new plant in China in April. From this, we expect clearly positive stimuli from 2021. Nevertheless, the plant has not yet contributed positively to Group net income during the start-up phase.

Findings about the expected course of the current financial year have now stabilised, so we have decided to limit our current forecast to one scenario (previously: rather optimistic and rather pessimistic scenario). On this basis, we expect a decline in Group sales in a range from -23 per cent to -28 per cent (previously in the rather pessimistic scenario -20 per cent to -25 per cent). This corresponds to sales of around EUR 87 million to EUR 93 million.

Furthermore, we expect an EBITDA ratio between -8 per cent and -12 per cent (previously in the rather pessimistic scenario -4 per cent to -8 per cent) for the current financial year. This corresponds to an EBITDA of around EUR -7 million to EUR -11 million.

Management is planning to extensively expand the cost-saving measures introduced in 2019 in the area of material and personnel costs at the Schramberg site. This primarily involves further staff reduction, adjustment of investment plans and further measures in the area of

material costs. Start-up in China will take place in accordance with capacity utilization.

The final figures for the first half of 2020 will be announced on 7 August 2020 at https://www.schweizer.ag/de/investorrelations/finanzberichte.html.

September 17-18, 2020 - Augsburg - FED
28th FED conference in Augsburg cancelled

In addition to professional training, the conference lives above all from networking, personal exchange and also from casual interaction. We cannot maintain this character - what makes the conference essential - this year. The legal hygiene and safety regulations for conferences now available include, among other things, a uniform mask requirement, strict distance regulations and a limitation of the number of participants. We take these rules very seriously and are convinced that the meaning and purpose of our conference can hardly be fulfilled. The top priority for us is the health of all visitors, for whom we want to avoid any risk. Alternatively, we are now working on online lectures that speakers from the 28th FED conference will hold for you. Dates will follow in the next few weeks. You can find information on this in our newsletter or on the FED website.

FED conference website

2nd virtual meeting of the FED regional group Düsseldorf

The second virtual meeting of the Düsseldorf regional group will take place on July 29 at 4 p.m. Look forward to two exciting lectures: Dr. Sebastian Quednau, Nanowired GmbH, gives a lecture on "Nanowired, a new assembly and connection technology (AVT) for power electronics, chip assembly and RF technology". Learn more about nanowires. They replace soldering, sintering or screwing and drastically reduce the electrical and thermal contact resistance. Afterwards Hanno Platz, head of the FED working group 3D electronics, gives an insight into the planning of the technology network 3D electronics on the topic "Application ideas with the nanowired Klettwelding technology". The short lecture provides an overview of the planned AVT demonstrators. All interested parties are welcome to participate free of charge.

EIPC SPEeDNEWS

The Weekly On-Line Newsletter from the European Institute of Printed Circuits.
Issue 20 - August 2020

NEWS FROM THE UK

Taster Session for IMAPS-UK MicroTech 2020 Online

Wednesday 26 August 2020 at 15:00 -15:45 UK

Introducing the MicroTech 2020 Online Conference on Advanced Packaging, this free taster session will provide an overview of the presentation topics, the exhibitors and the virtual networking session.

Register Here

IMAPS-UK MicroTech 2020 Online - 16 September 2020

Advanced Packaging

System in Package, 3D and Wafer Level Assembly, Advanced Thermal Management Materials and Plastic Packaging for Electronics and Photonics.

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£50 (exc VAT) for Non-Members of IMAPS **
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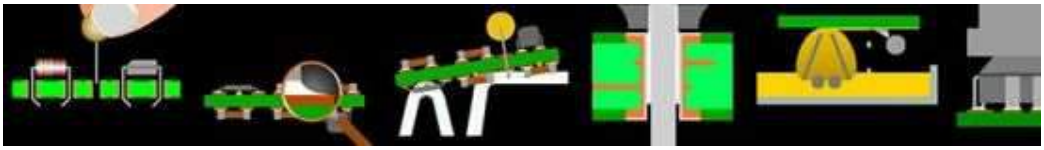
e-mail: Office@imaps.org.uk

Online/Onsite Training & Consultancy Worldwide

Soldering, PCB Failure & Crimping Webinars

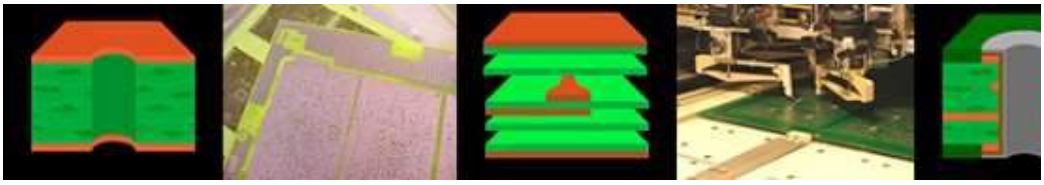
Every month we present online webinars for assembly, design, quality engineers and production staff working in electronics industry. Its an ideal way of learning and increasing awareness on standard processes or solving production issues or failures onsite or at your contractor. Further information on hands on training via our Website. Here are the webinar we are presenting in the next couple of months

Monitoring & Benchmarking Your Processes & Assembly Yields
10th Aug 2.30 pm - 4.00 pm UK Time



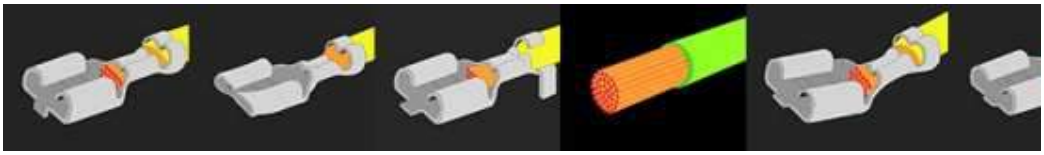
Webinar outline

Printed Circuit Board (PCB) Inspection & Quality Control
14th Sep 2.30 pm - 4.00 pm UK Time



Webinar outline

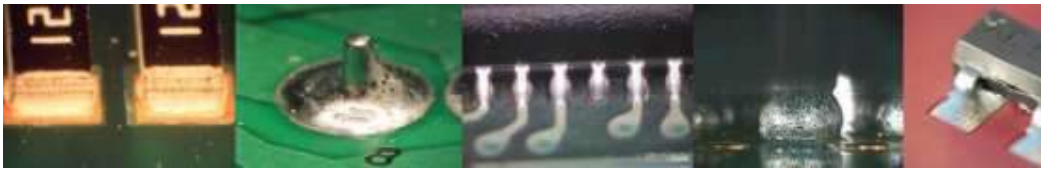
Crimping Wire Termination Inspection & Quality Control
1st Oct 2.30 pm - 4.00 pm UK Time



Webinar outline

What is a Good Solder Joint – How to Test Your Joints

2 Nov 2.30 pm - 4.00 pm UK Time



Webinar outline

Best PCB Solder Finishes – Process Defects Causes & Cures

7th Dec 2.30 pm - 4.00 pm UK Time

Webinar outline

Coming in 2021 or Watch LIVE NOW!

Using Solder Preforms for Soldering in Electronics
Solder Wicking - Benifits, Causes & Cures
Pin in Hole Intrusive Reflow 2021 - Design & Assembly
Tombstoning Components During Reflow - Causes & Cures
Manual Cleaning of PCB & Testing Methods

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The European Institute for the PCB Community

EIPC SPEeDNEWS

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ELECTRONIC INDUSTRY NEWS

Worldwide Tablet Shipments Recorded Solid Growth in Q2 2020, According to IDC

After two sequential quarters of decline, the worldwide tablet market recorded 18.6% year-over-year growth in the second quarter of 2020 (2Q20) with shipments totalling 38.6 million units, according to preliminary data from the International Data Corporation (IDC) Worldwide Quarterly Personal Computing Device Tracker. With COVID-related lockdowns continuing to restrict many activities, consumers turned to tablets for entertainment, business, and e-learning.

Tablet Company Highlights

Apple shipped 12.4 million units in 2Q20 to capture the top position once again. As logistical issues lessened, the vendor was able to pump a large number of shipments into the channel and record year-over-year growth of 1.3%. The 10.2-inch iPad still continues to be Apple's best seller owing to its affordable price and ability to connect to a keyboard. iPad Air and the latest iPad Pro have also been able to maintain momentum.

Samsung retained the number two position and recorded year-over-year shipment growth of 42.5%. The company managed to ship 7 million units in the quarter. Much of this growth is attributed to inventory replenishment and high demand from stay-at-home orders.

Huawei shipped 4.8 million units in 2Q20 for year-over-year growth of 43.5%. The company managed to gain more than two points of share compared to 2Q19, which was mainly from its Android detachable portfolio. The vendor's focus on Windows detachable has taken a back seat as it faces heavy competition from traditional Notebook PCs, which out compete detachables both in price and performance. Huawei continued to face significant headwinds outside of China, however it still managed to record year-over-year growth in both Europe and the rest of Asia/Pacific.

Amazon.com regained the fourth position with growth of 52.0% year over year. The company also gained share from 7.3% in 2Q19 to 9.3% in the most recent quarter. In an attempt to make the most of the situation the vendor also launched new 8-inch Fire HD tablets with upgraded processor and storage to cater to users looking for inexpensive devices for content consumption.

Lenovo finished the quarter in the fifth position recording year-over-year growth of 51.0% and shipping 2.8 million units. The vendor's diverse portfolio has helped them tap into all markets across the globe, however, its lower end tablets seem to be the most sought-after devices. In the current quarter Lenovo was able to manage growth across all regions except China due to strong competition from Huawei.

Top Five Tablet Companies, Worldwide Shipments, Market Share, and Year-Over-Year Growth, Second Quarter 2020 (Preliminary results, combined company view for the current quarter only, shipments in millions)

Vendor	2Q20 Unit Shipments	2Q20 Market Share	2Q19 Unit Shipments	2Q19 Market Share	Year-Over-Year Growth
1. Apple	12.4	32.2%	12.3	37.6%	1.3%
2. Samsung	7.0	18.1%	4.9	15.1%	42.5%
3. Huawei	4.8	12.4%	3.3	10.3%	43.5%
4. Amazon.com	3.6	9.3%	2.4	7.3%	52.0%
5. Lenovo	2.8	7.3%	1.9	5.7%	51.0%
Others	8.0	20.7%	7.8	24.0%	2.0%
Total	**38.6**	**100.0%**	**32.6**	**100.0%**	**18.6%**

Source: IDC Worldwide Quarterly PCD Tracker, July 30, 2020

Table Notes:

- Data is preliminary and subject to change. Some IDC estimates prior to financial earnings reports. Data for all companies are reported for calendar periods.
- Total tablet market includes slate tablets plus detachable tablets. References to "tablets" in this release include both slate tablets and detachable devices.
- "Convertibles" refers to convertible notebooks, which are notebook PCs that have keyboards that can either flip, spin, or twist, but unlike detachable tablets, convertible notebook keyboards are hardwired to the display.
- Shipments include shipments to distribution channels or end users. OEM sales are counted under the company/brand under which they are sold.
- The "Company" represents the current parent company (or holding company) for all brands owned and operated as subsidiary.

About IDC Trackers

IDC Tracker products provide accurate and timely market size, company share, and forecasts for hundreds of technology markets from more than 100 countries around the globe. Using proprietary tools and research processes, IDC's Trackers are updated on a semi-annual, quarterly, and monthly basis. Tracker results are delivered to clients in user-friendly excel deliverables and on-line query tools.

Click here to learn about IDC's full suite of data products and how you can leverage them to grow your business.

About IDC

To learn more about IDC, please visit www.idc.com.

CES 2021 will be online-only after all, the CTA confirms

Is this the end of the in-person trade show era?
By *Shawn Knight* on July 28, 2020, 11:18 AM

The Consumer Technology Association (CTA) on Tuesday announced that the 2021 edition of the Consumer Electronics Show (CES) will be an all-digital experience.

As recently as last month, the CTA said it was planning to host CES 2021 as an in-person event, albeit with enhanced sanitation policies in place. But a lot has happened since early June and with new Covid-19 cases continuing to pour in at a record rate, it seems increasingly likely that we're nowhere near the end of this thing.

Gary Shapiro, president and CEO of the CTA, said it just isn't possible to safely convene tens of thousands of people in Las Vegas to meet and do business in person. "By shifting to an all-digital platform for 2021, we can deliver a unique experience that helps our exhibitors connect with existing and new audiences," Shapiro added.

The CTA said it plans to return to Las Vegas for CES 2022 with an experience that combines the best elements of a physical and digital show.

Apple begins assembling iPhone 11 in India

Image Credits: TechCrunch

Apple's contract manufacturing partner Foxconn has started to assemble the current generation of iPhone units — the iPhone 11 line-up — in its plant near Chennai, India, a source familiar with the matter told TechCrunch.

A small batch of locally manufactured iPhone 11 units has already shipped to retail stores, but the production yield is currently limited, the person said, requesting anonymity as matters are private. Apple, in general, has ambitions to scale up its local production efforts in India, the person said.

The local production of current iPhone 11 models illustrates Apple's further commitment to India, the world's second largest smartphone market, as it explores ways to cut its reliance on China, which produces the vast majority of iPhone models today.

Apple's contract manufacturing partner, Taiwan-based Wistron, first began assembling older iPhone models in 2017. But until now, Apple has not been able to have an assembly partner produce the current generation iPhone model in India.

Wistron, which has locally assembled older iPhone SE, iPhone 6s and iPhone 7 models in the past in its Bangalore plant, currently assembles iPhone XR units in India. Apple discontinued the local production of iPhone SE and iPhone 6s last year, the person said.

Piyush Goyal, India's Minister of Commerce and Industry, tweeted on Friday that Apple had begun assembling iPhone 11 models in India. Apple did not comment on this story.

Assembling handsets in India enables smartphone vendors — including Apple — to avoid roughly 20% import duty that the Indian government levies on imported electronics products.

Xiaomi, Vivo, Samsung, Oppo, OnePlus and a range of other smartphone companies have inked deals with contract manufacturers across India in recent years to produce much of their locally sold smartphone units in the country itself.

Xiaomi, which has been the top smartphone vendor in India since late 2018, said earlier this month that nearly every smartphone it sells in India is produced in the country.

Apple has been exploring ways to ramp up its production in India for years, but the company has struggled to find contract manufacturers that adhere to its safety and quality standards, people familiar with the matter have told TechCrunch.

News outlet The Information reported in March that some of Apple's other contract manufacturers have attempted to enter — or expand in — India, but have run into regulatory and local law issues. Pegatron, another assembly partner of Apple, plans to set up a local subsidiary in India and begin operations in the country, according to Bloomberg.

Foxconn, which counts India as one of its biggest markets, plans to invest $1 billion in its operations in the country, Reuters reported earlier this month. In June this year, New Delhi announced a $6.6 billion plan to attract top smartphone manufacturers.

Apple plans to launch its online store in India in a few months and open its first brick-and-mortar retail store next year, chief executive Tim Cook announced earlier this year. The online store's launch in India remains on track despite the pandemic, a person familiar with the matter said.

The iPhone maker currently commands roughly 1% of the smartphone market in India, but is among firms that dominate the premium handset segment (phones priced at $400 or above). Apple has also been the least impacted smartphone maker in the country amid the corona virus pandemic.

Chinese officials reiterate support for 5G, semiconductor sectors amid tech war with US

- By the end of June, China's top three carriers had installed 400,000 5G base stations against an annual target of 500,000
- MIIT said 5G phone sales have been promising, with total shipments of 86.2 million so far this year

The Chinese government has reiterated its support for the massive roll-out of 5G networks in the country and development of a local chip industry as the world's second largest economy looks for ways to boost growth amid the coronavirus pandemic.

"We will continue to support China Unicom and China Telecom to co-build a 200 Mbps broadband stand-alone 5G network," Wen Ku, head of the Ministry of Industry and Information Technology, said in a briefing on Thursday. "This will be the world's most advanced network."

As of the end of June, China's top three carriers China Mobile, China Unicom, and China Telecom – which together serve more than 1.6 billion mobile users in the country – had installed 400,000 5G base stations against an annual target of 500,000, according to Wen. China Mobile and China Telecom agreed last year to co-build 5G networks to reduce pressure on their capital expenditure.

The government backing comes at a time when China and the US are battling for global dominance in cutting-edge technologies such as artificial intelligence, 5G mobile technology, and Internet of Things (IOT), which are considered necessary tools and abilities to compete in the global economy.

Wen said 5G phone sales have been promising, with total shipments of 86.2 million so far this year. Of that, 66 million 5G handsets were operating on 5G networks at the end of June.

Guangdong to build 20 hi-tech industrial estates focusing on 5G by 2022
14 Jul 2020

As Chinese vendors such as Huawei, Xiaomi, Oppo and Vivo double down on efforts to increase their domestic market share by increasing supply, prices of low-to-medium-end 5G phones are expected to drop to around 1,000 yuan (US$143). In comparison, Xiaomi's budget Redmi series 5G-enabled phones currently start at around 1599 yuan.

Xin Guobin, the vice-minister of Industry and Information Technology, said in the briefing that China will support new energy vehicle (NEV) development by encouraging development of battery replacement and advanced charging technology.

Wen said the development of 5G has been a boon for China's semiconductor manufacturing industry, which produced more than 100 billion integrated circuit chips in the first half of the year, up 16.4 per cent year on year.

"A large number of integrated circuit products, especially high-quality ones, are being used in the construction of 5G," Wen added.

China's securities regulators have been scrambling to approve listings of semiconductor companies on the tech-heavy Star market in Shanghai in response to fears that the US could further restrain China's access to the global chipmaking industry.

Chinese engineers from Huawei, China Mobile build world's highest 5G base station on Mount Everest

In May Washington introduced a new rule that restricted Huawei from buying products from the world's No 1 wafer foundry, TSMC, as part of the US campaign to curb the Chinese company's dominance in 5G. In anticipation of the move, Huawei placed a large order with TSMC before the new rule and now has enough 5G base station chips to last until the end of 2021, according to a Jefferies report on Monday.

Wen said China aims to speed up development of the semiconductor industry by encouraging cooperation between academia and industry, and by training more talent.

Gartner Says Companies Must Reset Their Business Strategy Due to COVID-19 Pandemic

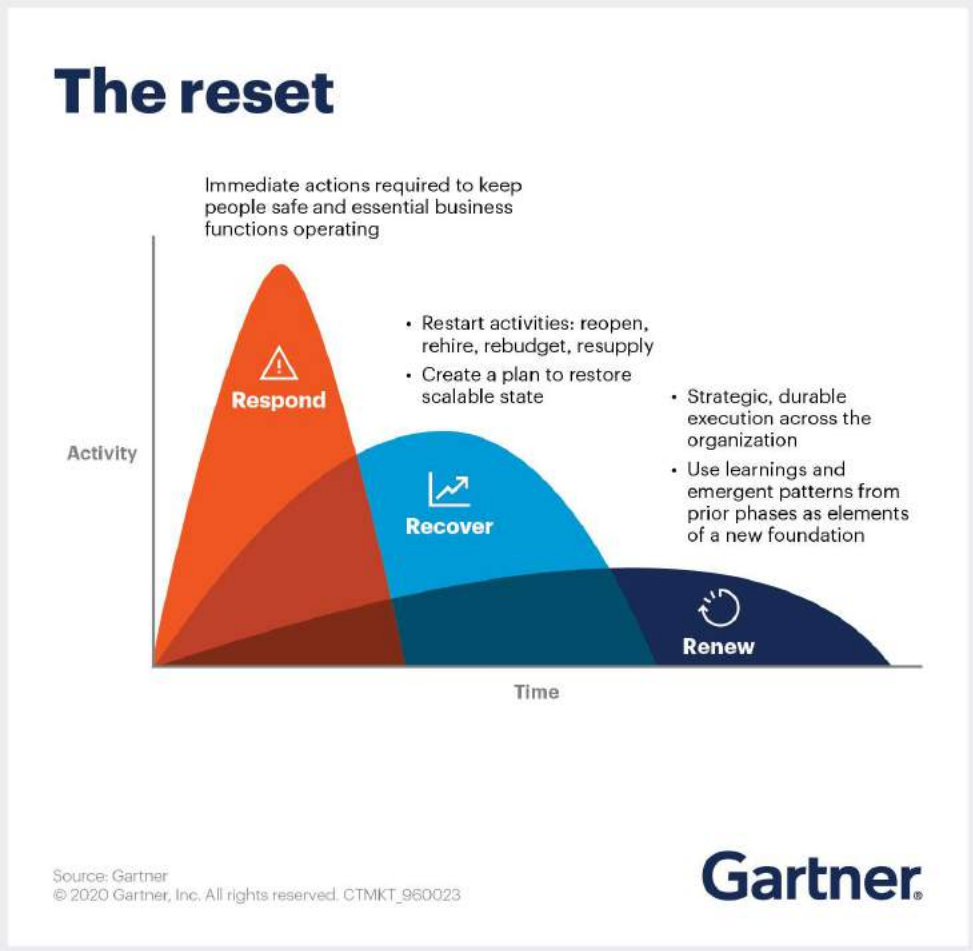
The Reset Takes Place in Three Stages: Respond, Recover, and Renew

As the phases of the COVID-19 pandemic progress, business leaders must reset their strategy and build resilience, according to Gartner, Inc. It is crucial for senior leaders to make strategic decisions that will lead them to a renewed future state.

Gartner refers to "the reset" as three phases that leaders will go through during the pandemic. The duration of each phase varies by country, industry and enterprise, as well as by business unit, product or service. While business leaders reset their strategies during the pandemic, the three stages they will go through include: Respond, Recover and Renew (see Figure 1).

"There's been a reset of the workforce and work itself, a reset of the employer/employee relationship, and a reset of the business ecosystem. For most, the business impact of the pandemic has been deeply negative, while positive for some fortunate sectors," said Chris Howard, chief of research at Gartner. "The pandemic has wiped away the strategy for some leaders, but they've also garnered invaluable experience. Now it's time to bring together the executive team and use those lessons to reconfigure their business and operating models for a new reality."

Figure 1: Activity Timeline



Respond

Immediate actions are focused on keeping people safe and essential business functions operating. This is a relatively short period marked by high effort and potentially chaotic activity. Key activities include:

- Temporary fixes to stop the bleeding.

Recover

This is a more organized/coordinated effort to stabilize operations. This has a medium duration. Key activities include:

- Create a plan to restore a scalable state

- Identify capabilities needed to strengthen, refactor, reopen, rehire, rebudget, and resupply

Renew

Extended period marked by strategic, durable execution across the organization. Key activities include:

- Learn to conduct operations processes and workflows in new, repeatable, and scalable ways.
- Use lessons learned and emergent patterns from prior phases to coalesce around a new foundation and way forward.

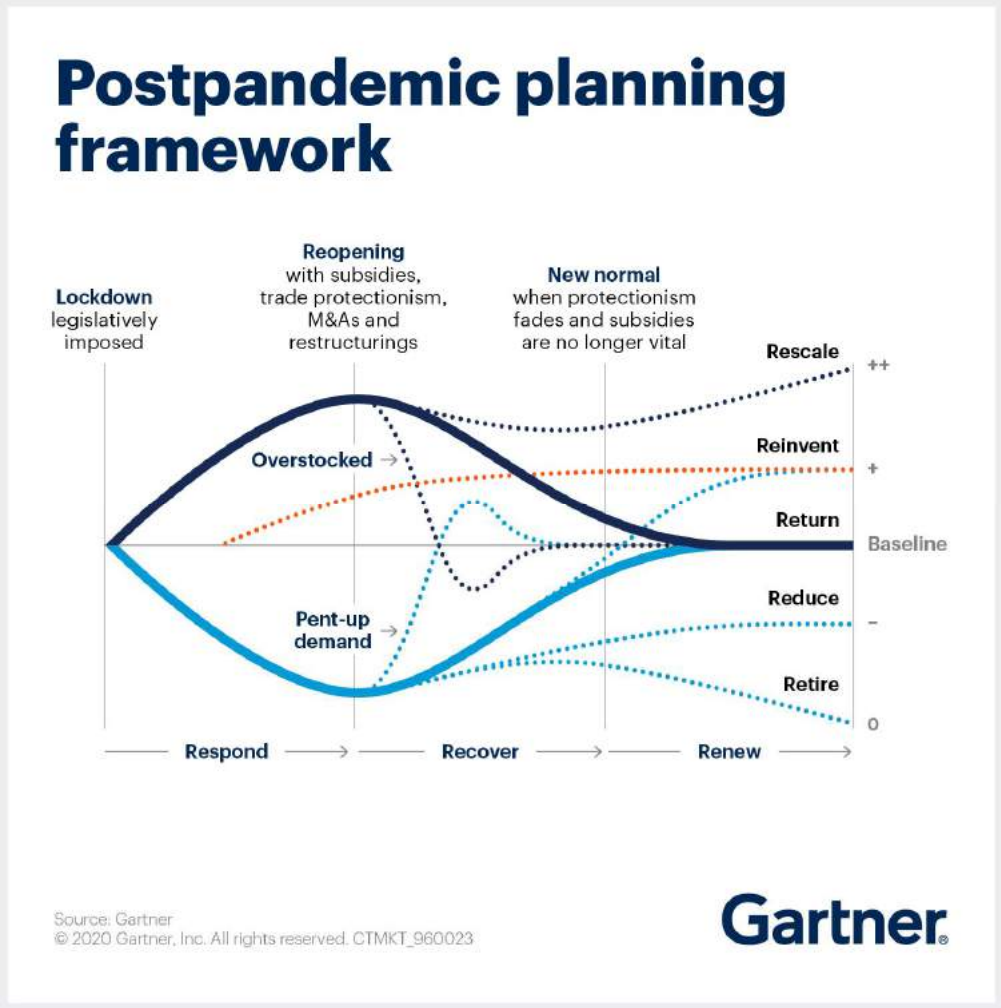
These phases are not sequential. As seen in Figure 1, the phases can overlap. Mr. Howard said that during highly disruptive times, it is possible to think about the renewal phase, even while grappling with the triage response and recovery. In fact, for executive leaders, he said it's not just possible – it's essential.

Successful resets also build organizational resilience. As organizations weed out weaknesses and amplify strengths in their business and operating models, they will be better positioned to weather the next disruption.
"In the absence of a vaccine or cure for COVID-19, any rebound in business activity could easily be followed by another round of response, recover, renew, so the imperative is to absorb lessons learned quickly and build sustainable changes into business and operating models," Mr. Howard said.

Create a Resilient Business Model

Business leaders must first determine exactly where and how the crisis has stretched and broken their existing models, and where the risks and opportunities lie as a result. Senior and functional leaders must collaborate around an agile, options-based scenario-planning protocol they can use to identify significant uncertainties and evaluate them in terms of their importance to the near and long-term future of the enterprise.

In the Renew phase, leaders must take the opportunity to reset or rebuild their business models and operations for a new reality. Gartner has outlined the plausible post-pandemic pathways as rescale, reinvent, return, reduce and retire (see Figure 2).
Figure 2: The Postpandemic Planning Framework



"For some, the pandemic has stressed business and operating models to the point of breaking. Organizations will ultimately reduce or retire some activities permanently. This could include moving some business capabilities out into the ecosystem (e.g., SaaS) or removing a product or service entirely. In some cases, retirement is long overdue," Mr. Howard said.

"Others could reinvent themselves by refocusing their capacity. Think of government service centers that have been forced to offer their services remotely. They may be able to retire some of their physical centers and instead focus on their newfound digital capabilities," Mr. Howard said. "Yet others, such as digitalized parts of an organization, might rescale permanently."

Additional information is available in the Reset your business strategy section on gartner.com. Complimentary research, insights and webinars are offered to help leaders build resilience on their path to business recovery.

News from WECC members

WECC World Electronic Circuits Council

Issue 20 – August 2020

NEWS FROM THE IPC

IPC and iNEMI Sign Memorandum of Understanding, Strengthening Collaboration Focused on the Future of Electronics Manufacturing

IPC and International Electronics Manufacturing Initiative (iNEMI), have signed a Memorandum of Understanding (MoU) to collaborate and share information on developing technology roadmaps, organizing forums, establishing new programs, and identifying additional industry needs and projects for the mutual benefit of the membership of both organizations.

"iNEMI is a well-established R&D consortium that has long provided valuable expertise and support in the development of IPC standards," said Matt Kelly, IPC chief technologist. "This agreement will enable us to work closely together to study the technology needs of the electronics manufacturing supply chain and provide greater benefit to our respective membership."

"iNEMI and its members value the long-standing relationship with IPC, which dates back 20+ years. This updated MoU reinforces our partnership and the benefits of collaboration across the electronics manufacturing eco-system," said Marc Benowitz, iNEMI CEO. "We are excited about the opportunities to further our collective impact for the advancement of the industry as a whole."

IPC and iNEMI have worked successfully for decades on projects requiring "round robin" tests for various programs, have collaborated on each organization's roadmaps and events and most recently on a best practices document on disinfecting electronics products and assemblies.

IPC APEX EXPO Call for Participation Deadline Extended; Virtual Presentation Proposals Being Accepted

IPC has extended the deadline for IPC APEX EXPO 2021 technical conference abstracts to Monday, August 31. Due to travel restrictions by some companies and geopolitical areas, IPC is also accepting proposals for virtual presentations. IPC APEX EXPO 2021 technical conference will take place January 26–28 and professional development courses will run January 23–28.

The industry's premier conference and exhibition for electronics manufacturing in North America, IPC APEX EXPO provides presenters and their companies with a notable and cost-effective opportunity to promote their expertise and gain visibility with key engineers, managers and executives from all segments of the industry worldwide.

Topics being sought within the following categories include:

- Factory of the Future Implementation
- Enabling Future Technologies
- Meeting Extreme Requirements
- Conscientious Engineering
- Circuit Design and Component Technologies
- Assembly Processes PCB Fabrication and Materials
- Electronics Materials
- Quality, Reliability, Test and Inspection

An approximate 300-word technical conference abstract summarizing original and previously unpublished work covering case histories, research and discoveries must be submitted. The submission should describe significant results from experiments and case studies, emphasize new techniques, discuss trends of interest and contain appropriate technical test results.

Visit www.ipcapexexpo.org/cfp for a comprehensive list of topics. For more information about conference participation or professional development, please contact Toya Richardson at ToyaRichardson@ipc.org or +1 847-597-2825.

EIPC SPEeDNEWS

Issue 20 – August 2020

International Diary

2020

CPCA
25-27 August
Shanghai

IPCA Expo
23-25 September
India

EIPC @ Evertiq Expo
20 October
Tampere, Finland

TPCA Exhibition
21-23 October
Taipei, Taiwan

EIPC @ Electronica 2020
10-13 November
München, Germany

KPCA
24-26 November
Incheon, Korea

ECWC15, WECC World Electronics Circuits Council
30 November-2 December
Webinar

HKPCA Exhibition
2-4 December
Hong Kong, China

2021

IPC APEX EXPO
March
San Diego, USA

EIPC @ SMTconnect
4-6 May
Nuremberg, Germany