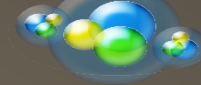




Electronics Materials Information



# 2020 Corona Virus Supply-Chain Impact Supplier Survey-4

Monday, May 4, 2020

# Survey Background

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- This survey is the 4th survey of a round of several surveys that TECHCET will perform to track the impact of COVID-19 on the semiconductor industry. The industry will be queried every 2-3 weeks
- The first and second surveys on the impact of COVID-19 on the materials supply-chain was initially sent to CMC Members and later opened up to non-members in 2020 and March, 2020. The results can be found at [www.criticalmaterials.org](http://www.criticalmaterials.org)
- Comparison data is from
  - Survey 2 March 18
  - Survey 3 April 6

If you did not have a chance to be included in the survey and are interested in participating in the next round of surveys, please email us at : [cmcinfo@techcet.com](mailto:cmcinfo@techcet.com)

## Disclaimer

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This report represents the interpretation and analysis of information generally available to the public or released by responsible agencies or individuals. Data was obtained from sources considered reliable. However, accuracy or completeness is not guaranteed.

# CMC Supplier Survey Demographics

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- 16 responses from global suppliers with global locations

# 16

Total Responses

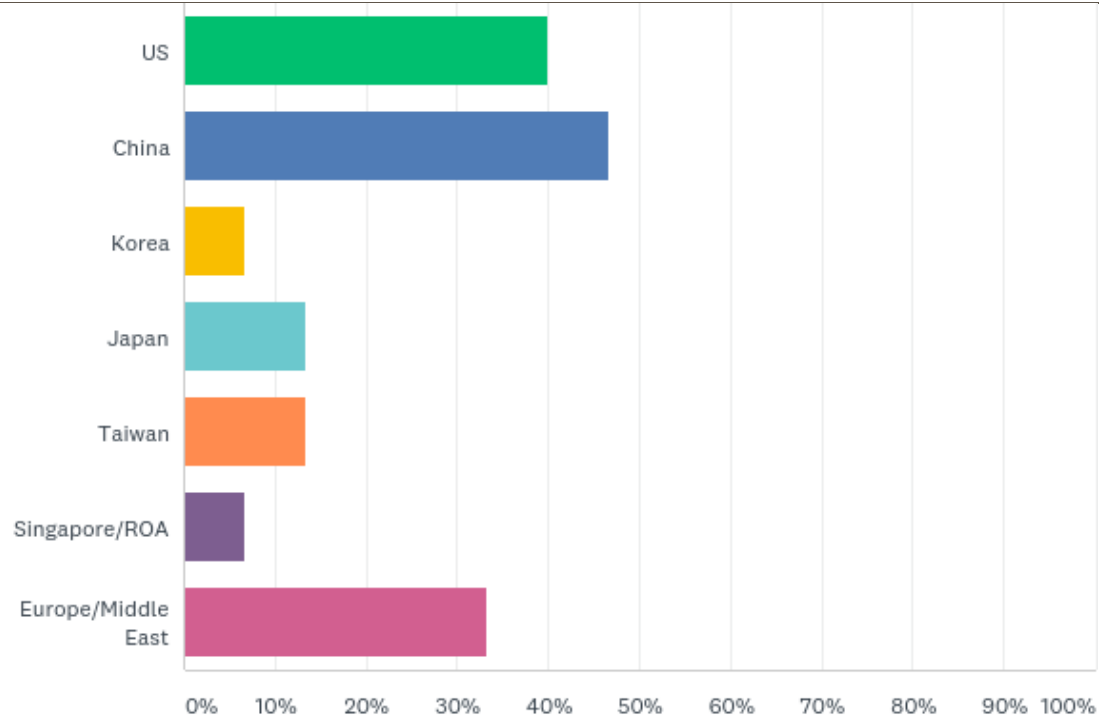
## Summary: Supplier Survey 4 May 4th

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- 60% have all-restricted all travel
  - A slight uptick compared to last month at 56%
- 21% are visiting customer sites
- 100% said no customers are visiting their sites at this time
- No responding supplier companies are reporting work force reductions
  - Same at March at 100% not experience WFR
- 1 company has a US location temporarily shut down
  - This is the same as last month
- Order volumes seem to be increasing or slightly the same as last year
- 33% are experience supply chain disruption
  - About the same as last month at 31%
- Of those who indicated supply-chain disruptions are a problem, international logistics appears to be a the biggest issue
- 40% of respondents with supply chain disruption have issues with wet chemicals
- 60% have plans to increase inventory, the same as last month

## Q2: Where is/are your production/operations located? ( check all that apply)

Answered: 15 Skipped



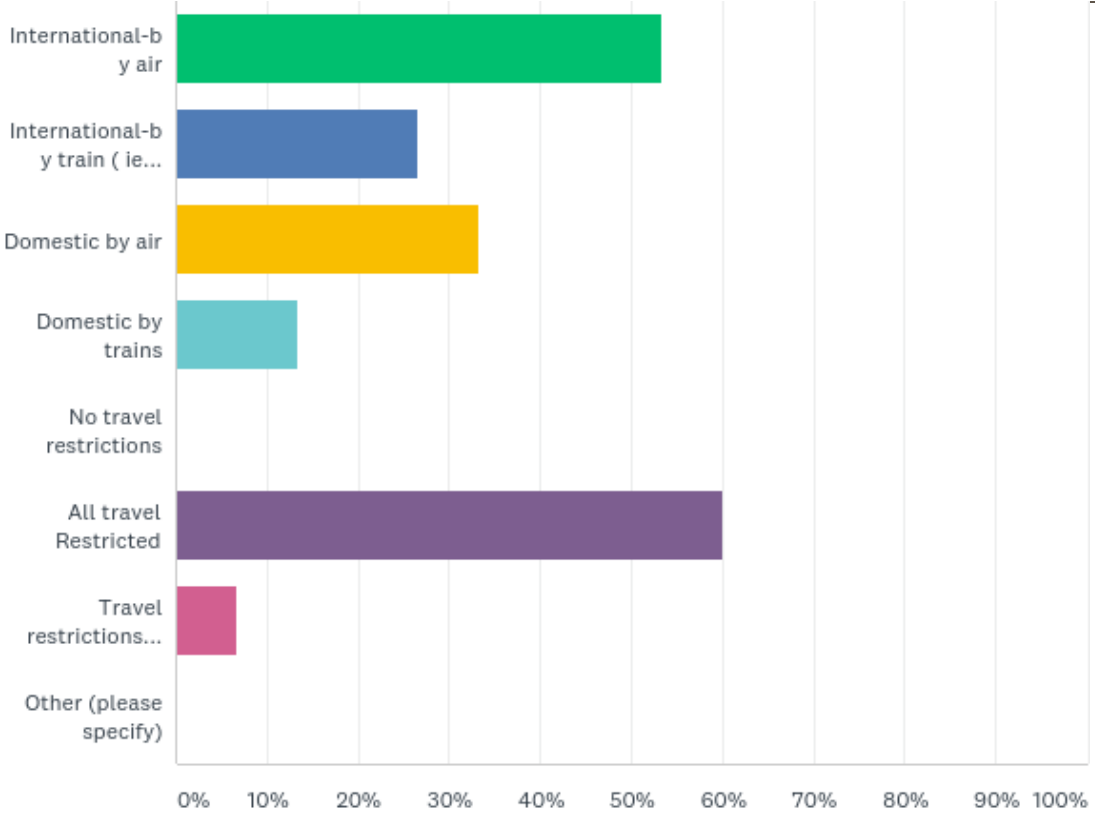
## Q2: Where is/are your production/operations located? ( check all that apply)

Answered: 15 Skipped: 0

ANSWER CHOICES	RESPONSES	
US	40.00%	6
China	46.67%	7
Korea	6.67%	1
Japan	13.33%	2
Taiwan	13.33%	2
Singapore/ROA	6.67%	1
Europe/Middle East	33.33%	5
Total Respondents: 15		

# Q3: Is your company continuing to restrict travel and by what means? (CHECK ALL THAT APPLY)

Answered: 15 Skipped





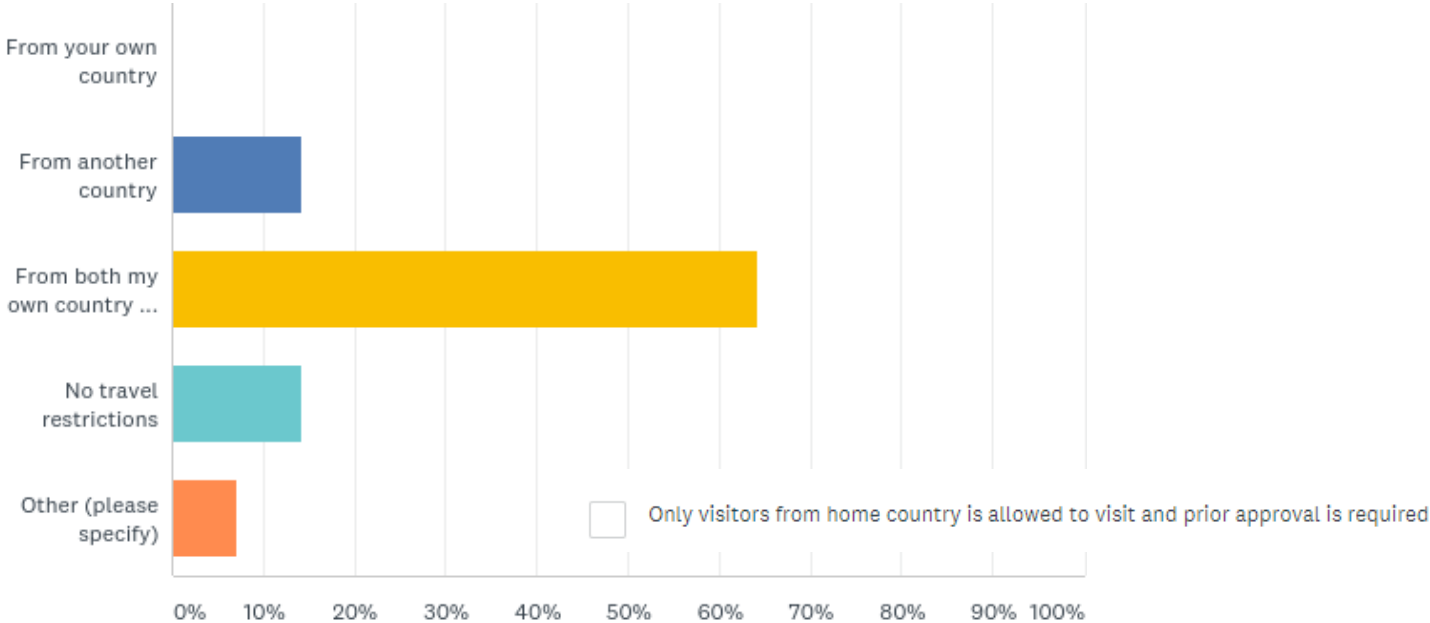
# Q3: Is your company continuing to restrict travel and by what means? (CHECK ALL THAT APPLY)

Answered: 15 Skipped: 0

ANSWER CHOICES	RESPONSES	RESPONSES
International-by air	53.33% 8	50.00% 8
International-by train ( ie. cross-borders between European countries)	26.67% 4	18.75% 3
Domestic by air	33.33% 5	18.75% 3
Domestic by trains	13.33% 2	6.25% 1
No travel restrictions	0.00% 0	0.00% 0
All travel Restricted	60.00% 9	56.25% 9
Travel restrictions are easing	6.67% 1	6.25% 1
Other (please specify)	0.00% 0	
Total Respondents: 15		

# Q4: For non-employee (visitors) coming to your site, has your company restricted entrance to those...

Answered: 14 Skipped: 1



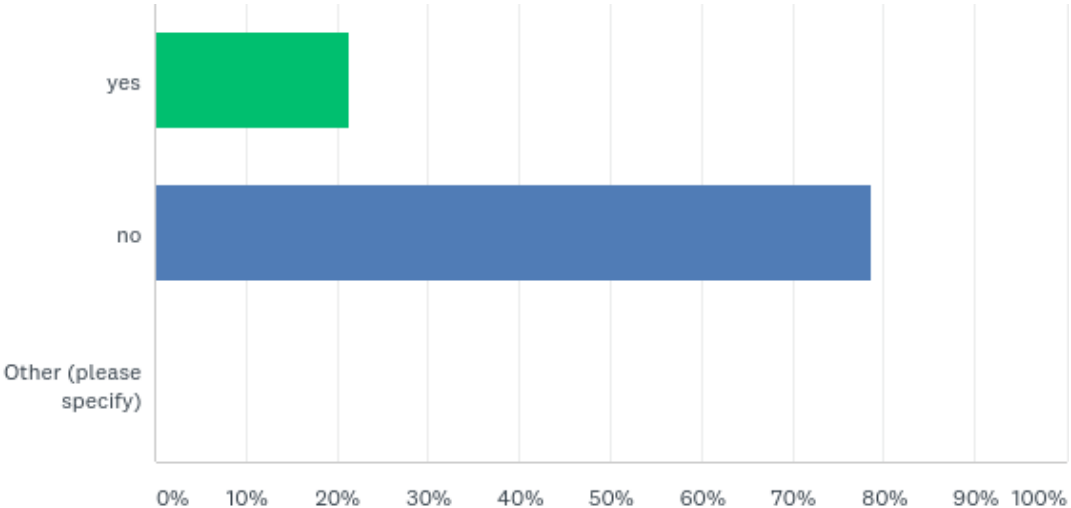
# Q4: For non-employee (visitors) coming to your site, has your company restricted entrance to those...

Answered: 14 Skipped: 1

ANSWER CHOICES	RESPONSES		RESPONSES
From your own country	0.00%	0	0.00%
From another country	14.29%	2	6.67%
From both my own country and another country	64.29%	9	73.33%
No travel restrictions	14.29%	2	13.33%
Other (please specify)	7.14%	1	6.67%
<b>TOTAL</b>		<b>14</b>	

# Q5: Are you visiting customer sites?

Answered: 14 Skipped: 1



## Q5: Are you visiting customer sites?

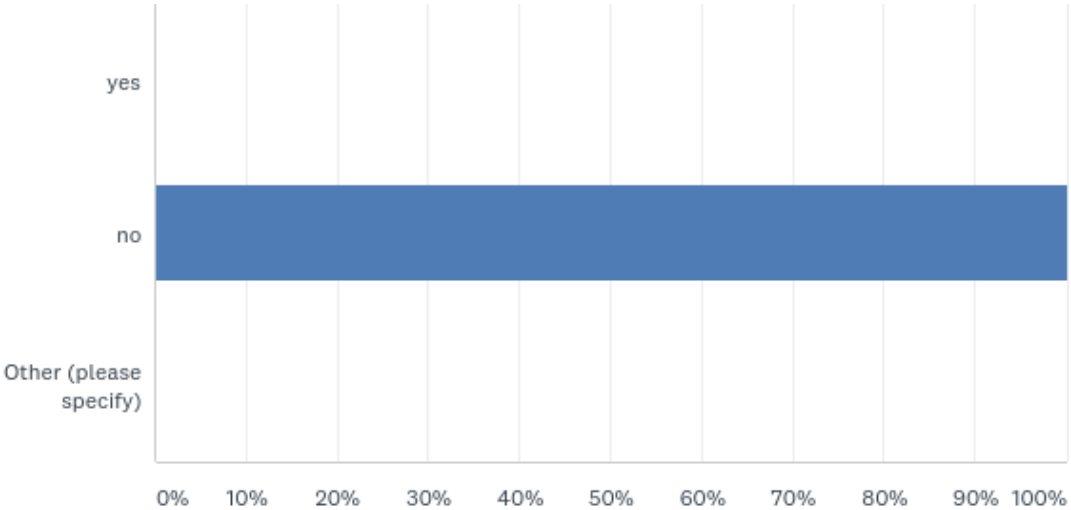
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Answered: 14 Skipped: 1

ANSWER CHOICES	RESPONSES	
yes	21.43%	3
no	78.57%	11
Other (please specify)	0.00%	0
<b>TOTAL</b>		<b>14</b>

# Q6: Are your customers visiting at your site(s)? ( i.e. supplier audits)

Answered: 15 Skipped: 0



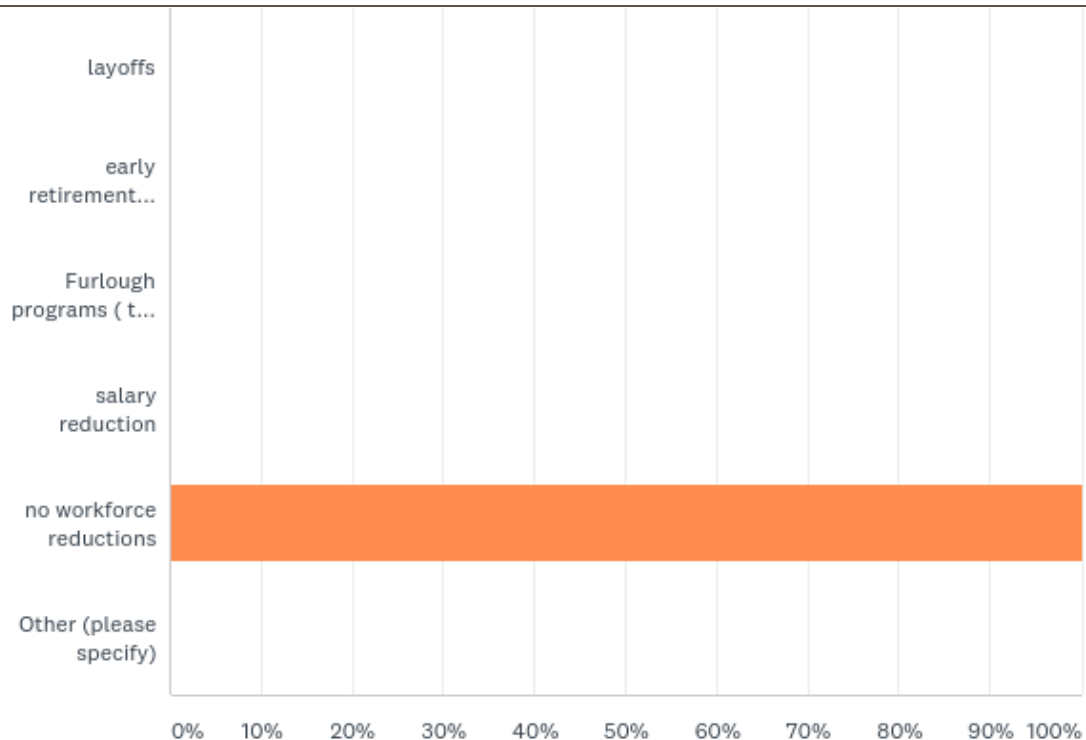
# Q6: Are your customers visiting at your site(s)? ( i.e. supplier audits)

Answered: 15 Skipped: 0

ANSWER CHOICES	RESPONSES	
yes	0.00%	0
no	100.00%	15
Other (please specify)	0.00%	0
<b>TOTAL</b>		<b>15</b>

# Q7: Is your company experiencing any workforce reduction? ( check all the apply)

Answered: 15 Skippe





# Q7: Is your company experiencing any workforce reduction? ( check all the apply)

## Survey 4

Answered: 15 Skipped: 0

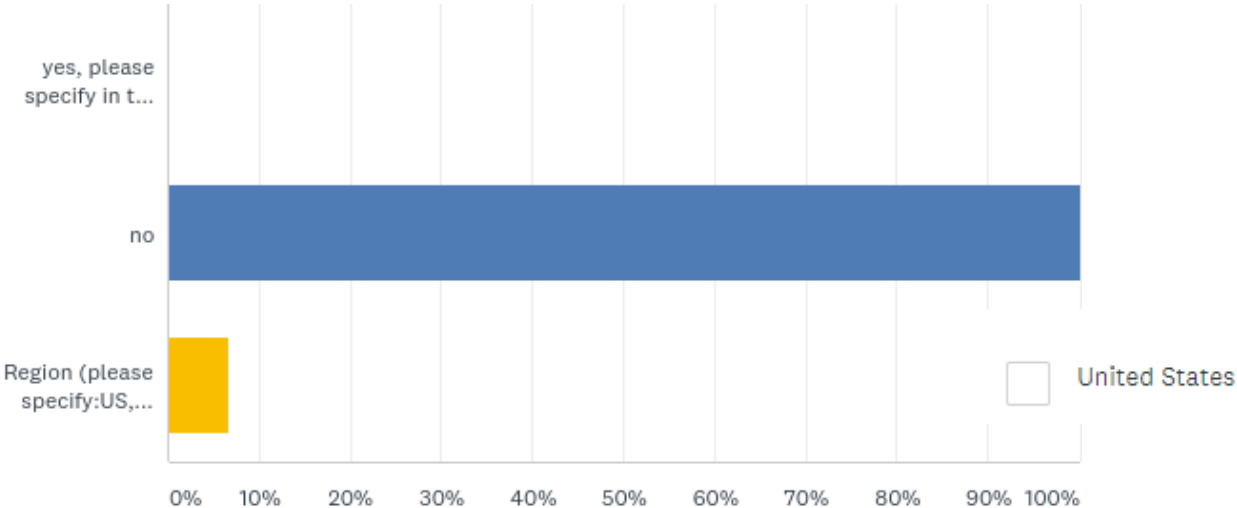
ANSWER CHOICES	RESPONSES	
layoffs	0.00%	0
early retirement packages	0.00%	0
Furlough programs ( time off without pay, but get benefits)	0.00%	0
salary reduction	0.00%	0
no workforce reductions	100.00%	15
Other (please specify)	0.00%	0
Total Respondents: 15		

## Survey3

ANSWER CHOICES	RESPONSES	
yes	0.00%	0
no	100.00%	16
Other (please specify)	0.00%	0
TOTAL		16

# Q9: Are any of your locations closed, shutdown, or operating at reduced levels? If yes, please specify regions (US, China, Korea, Japan, Taiwan, Singapore/ROA, Eu/Middle East)

Answered: 15 Skipped: 0



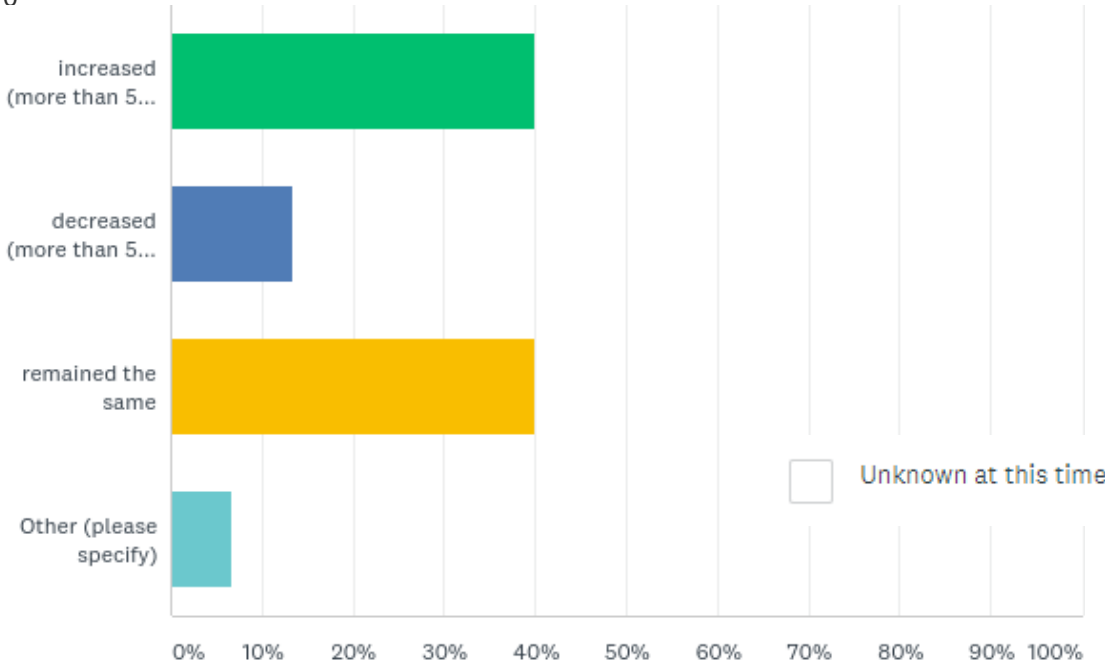
# Q9: Are any of your locations closed, shutdown, or operating at reduced levels? If yes, please specify regions (US, China, Korea, Japan, Taiwan, Singapore/ROA, Eu/Middle East)

Answered: 15 Skipped: 0

ANSWER CHOICES		RESPONSES	
yes		6.25%	1
no		93.75%	15
Region (please specify:US, China, Korea, Japan, Taiwan, Singapore/ROA, Eu/Middle East))		6.25%	1
Total Respondents: 16			

# Q10: In comparison to last year, have your order volumes from customers ..

Answered: 15 Skipped: 0



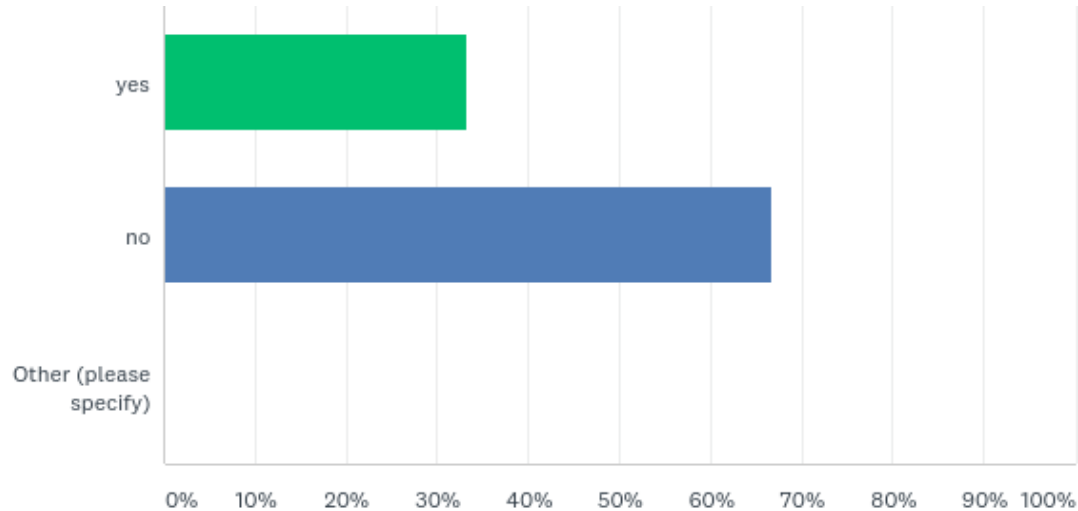
# Q10: In comparison to last year, have your order volumes from customers ..

Answered: 15 Skipped: 0

ANSWER CHOICES	RESPONSES	RESPONSES
increased (more than 5% Yr/Yr)	40.00% 6	43.75%
decreased (more than 5% Yr/Yr)	13.33% 2	0.00%
remained the same	40.00% 6	43.75%
Other (please specify)	6.67% 1	12.50%
TOTAL	15	

# Q11: Are you experiencing any supply chain disruption from your materials suppliers ( i.e. sub-tier suppliers) due to the corona virus?

Answered: 15 Skipped: 0



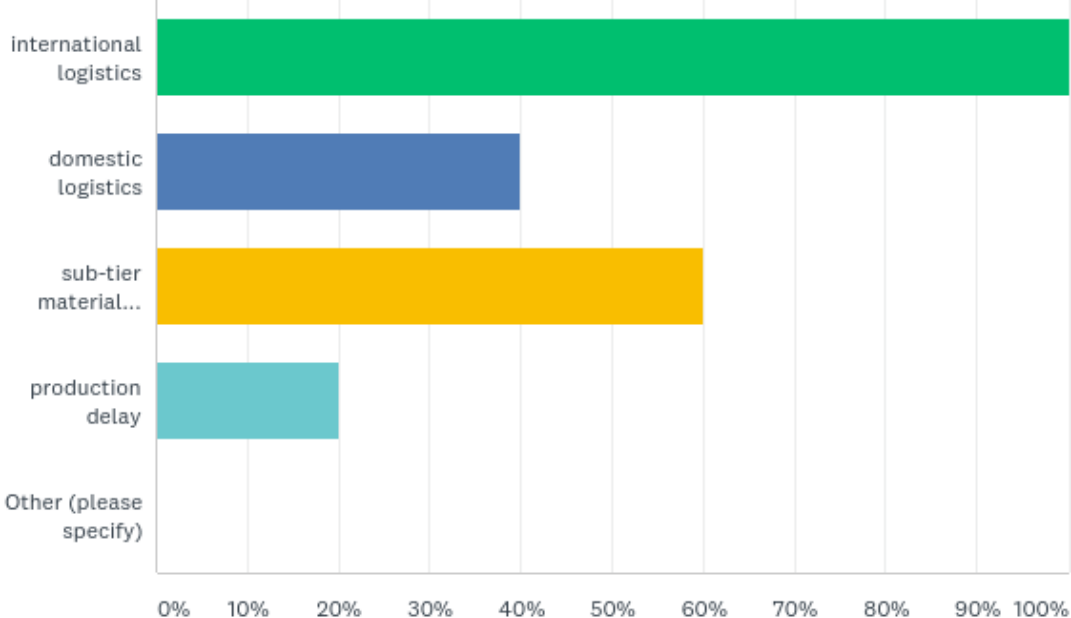
# Q11: Are you experiencing any supply chain disruption from your materials suppliers ( i.e. sub-tier suppliers) due to the corona virus?

Answered: 15 Skipped: 0

ANSWER CHOICES	RESPONSES	RESPONSES
yes	33.33% 5	31.25%
no	66.67% 10	62.50%
Other (please specify)	0.00% 0	6.25%
TOTAL	15	

# Q12: Relating to the question above, what is the issue for the supply chain disruption? (skip if you answered "no" above) CHECK ALL THAT APPLY

Answered: 5 Skipped: 10





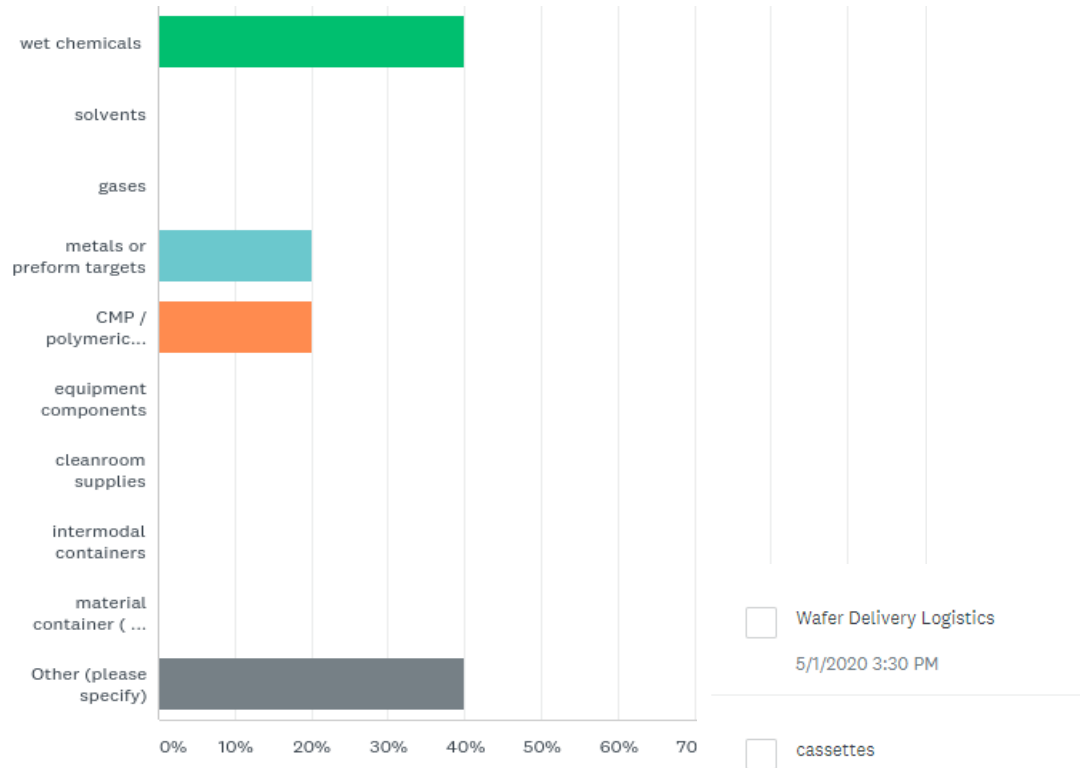
## Q12: Relating to the question above, what is the issue for the supply chain disruption? (skip if you answered "no" above) CHECK ALL THAT APPLY

Answered: 5 Skipped: 10

	Survey 4		Survey 3	
ANSWER CHOICES	RESPONSES		RESPONSES	
international logistics	100.00%	5	83.33%	5
domestic logistics	40.00%	2	0.00%	0
sub-tier material delivery/lead times	60.00%	3	50.00%	3
production delay	20.00%	1	16.67%	1
Other (please specify)	0.00%	0	0.00%	0
Total Respondents: 5				

# Q13: If you answered yes to the supply chain disruption question above, please indicate the material area being impacted. (CHECK ALL THAT APPLY)

Answered: 5 Skipped: 10



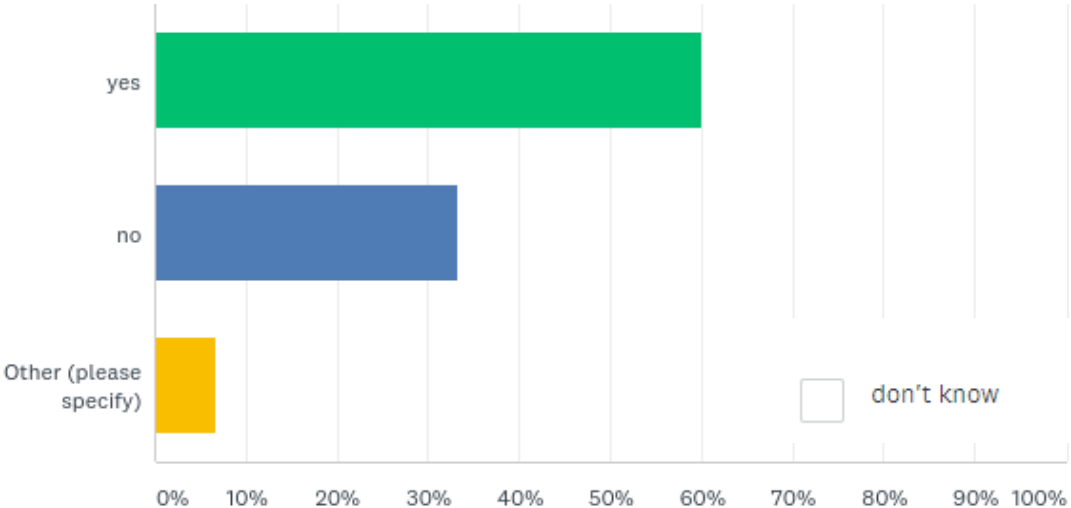
# Q13: If you answered yes to the supply chain disruption question above, please indicate the material area being impacted. (CHECK ALL THAT APPLY)

Answered: 5 Skipped: 10

ANSWER CHOICES	Survey 4		Survey 3	
	RESPONSES		RESPONSES	
wet chemicals	40.00%	2	16.67%	1
solvents	0.00%	0	16.67%	1
gases	0.00%	0	16.67%	1
metals or preform targets	20.00%	1	33.33%	2
CMP / polymeric materials	20.00%	1	0.00%	0
equipment components	0.00%	0	0.00%	0
cleanroom supplies	0.00%	0	33.33%	2
intermodal containers	0.00%	0	0.00%	0
material container ( i.e 55 gal drums, glass bottles, etc)	0.00%	0	16.67%	1
Other (please specify)	40.00%	2	0.00%	0
Total Respondents: 5				

# Q14: Does your company have plans to increase inventory to minimize the possible impact of COVID19 on your production/ operations? ( i.e. raw materials)

Answered: 15 Skipped: 0



## Q14: Does your company have plans to increase inventory to minimize the possible impact of COVID19 on your production/ operations? ( i.e. raw materials)

Answered: 15 Skipped: 0

ANSWER CHOICES	Survey 4		Survey 3
	RESPONSES		RESPONSES
yes	60.00%	9	62.50%
no	33.33%	5	25.00%
Other (please specify)	6.67%	1	12.50%
TOTAL		15	

## General Feedback

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Stable conditions with no more inventory builds, logistics biggest issue currently, conditions starting to ease in all regions

5/1/2020 3:30 PM [View respondent's answers](#) [Add tags](#) ▼

more uncertainties by customers More extra work to secure supply chain and inform customers on status all the time

5/1/2020 1:05 AM [View respondent's answers](#) [Add tags](#) ▼

In China, our business activities have gradually recovered to the situation before COVID-19 Virus epidemic. We can travel to meet suppliers and customers. But the first quarter sales revenue decreased around 10% in comparison to the same quarter last year.