

The photonics industry and the pandemic

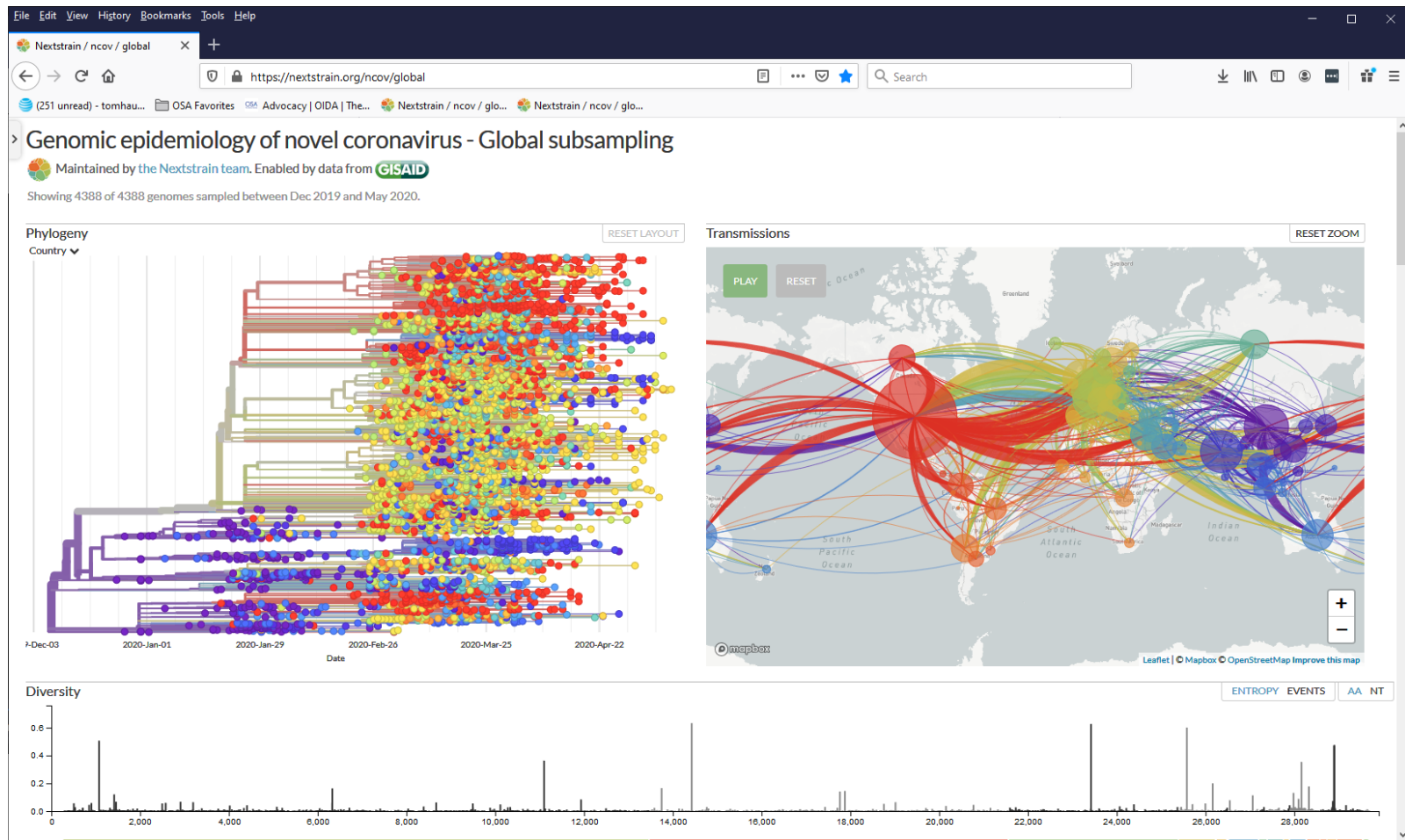
21 March 2020

Florida Photonics Cluster meeting

The logo for OSA Industry Development Associates is positioned on the right side of the slide. It features a blue triangle pointing to the right, containing the letters 'OSA' in white. Below the triangle, the words 'Industry Development Associates' are written in white, stacked vertically. The background of the slide on the right is dark blue with colorful, flowing, abstract shapes in shades of red, orange, and purple.

OSA
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Viral mapping and ancestry



Source: nextstrain.org

Photonics is fighting the virus

Equipment	Diagnostic
Infrared thermometers and imagers	Body temperature
Pulse oximeters	Blood oxygenation
CT radiography	Lung damage
RT-PCR molecular analysis instruments	Presence of genetic material
ELISA	Presence of antibodies
Gene sequencing instruments	Mapping viral genomes

Key:
 RT-PCR Reverse transcription polymerase chain reaction
 ELISA Enzyme-linked immunosorbent assay
 CT Computed tomography (scanning x-ray)

See: *Optics & Photonics—Critical Tools in the Fight Against COVID-19*
 (OSA's *Optics & Photonics News* magazine and May 8 webinar).

osa-opn.org



Room temperature RT-PCR instrument.
 Credit: Cepheid



UV sterilization



Top: Germicidal lamps up to 30 Watts. Credit: Biolux Inc.

Bottom: Prototype LED decontamination lamp. Credit: Wikimedia commons

Right: Puro's Sentry Portable UV disinfection unit. Source: Puro.

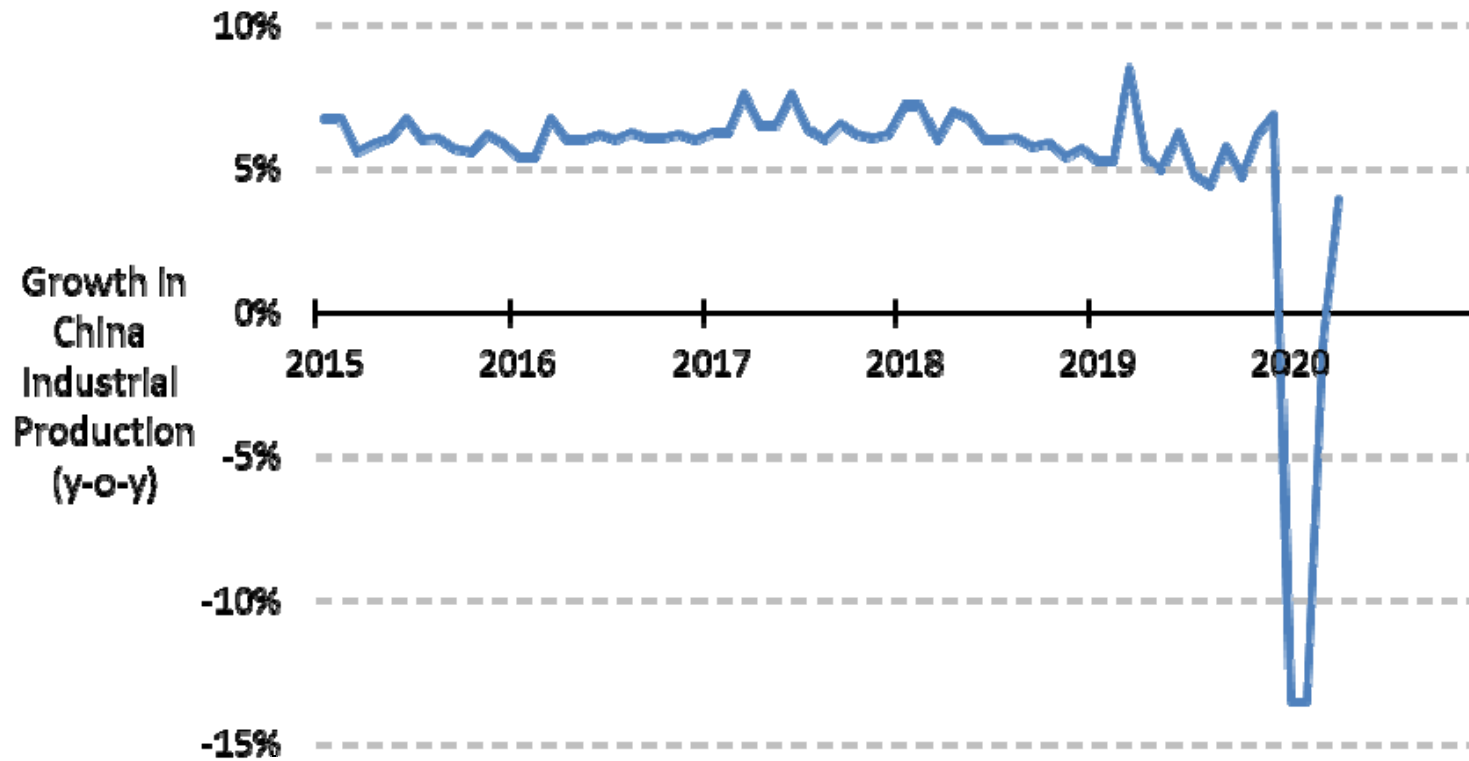
See also: *Optics & Photonics—Critical Tools in the Fight Against COVID-19* (OPN magazine and webinar). osa-opn.org

We are in a Black Swan



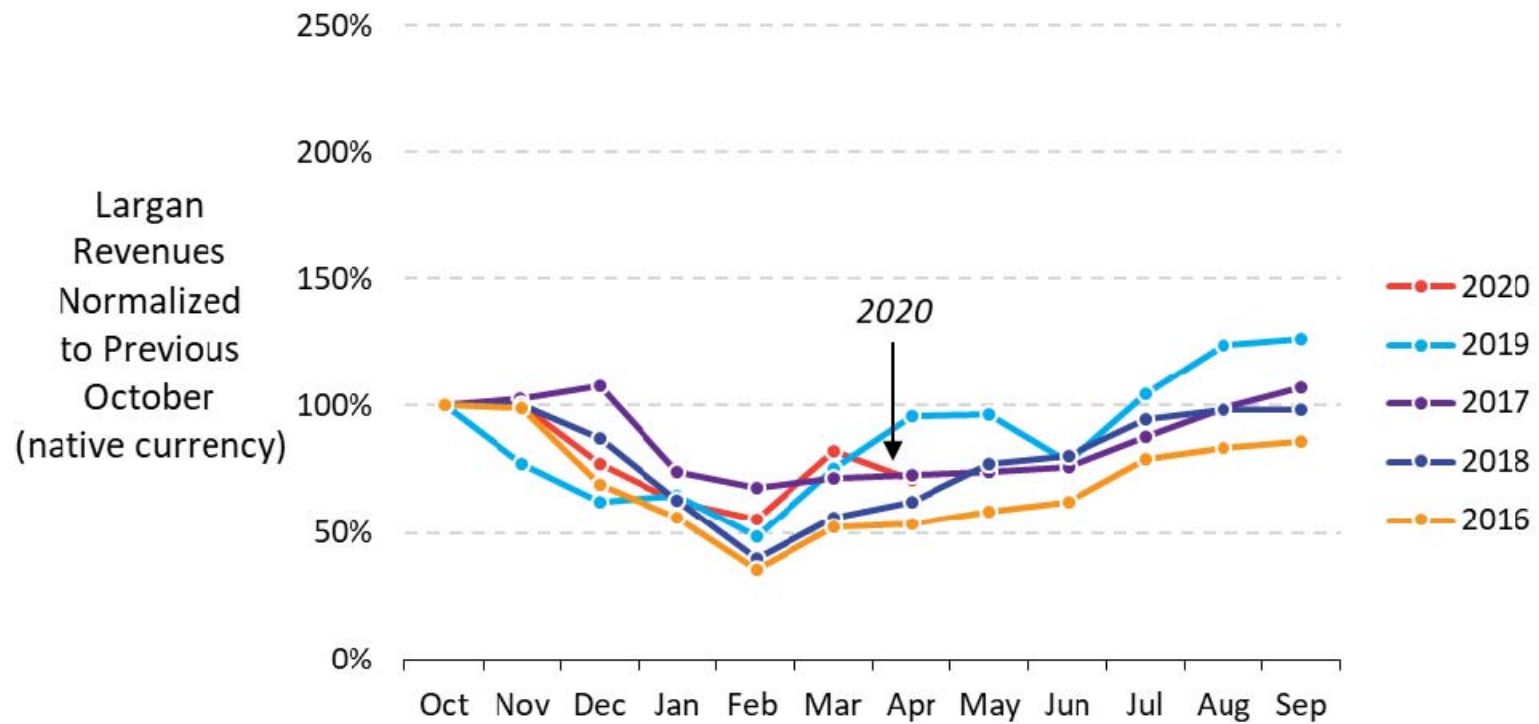
Source: Office Guy Cartoons.

V-shaped supply side shock



Source:
Right: National Bureau of Statistics of China (May 2020). Representing industry value-added year-over-year growth rate. January and February are combined.

V-shaped supply side shock



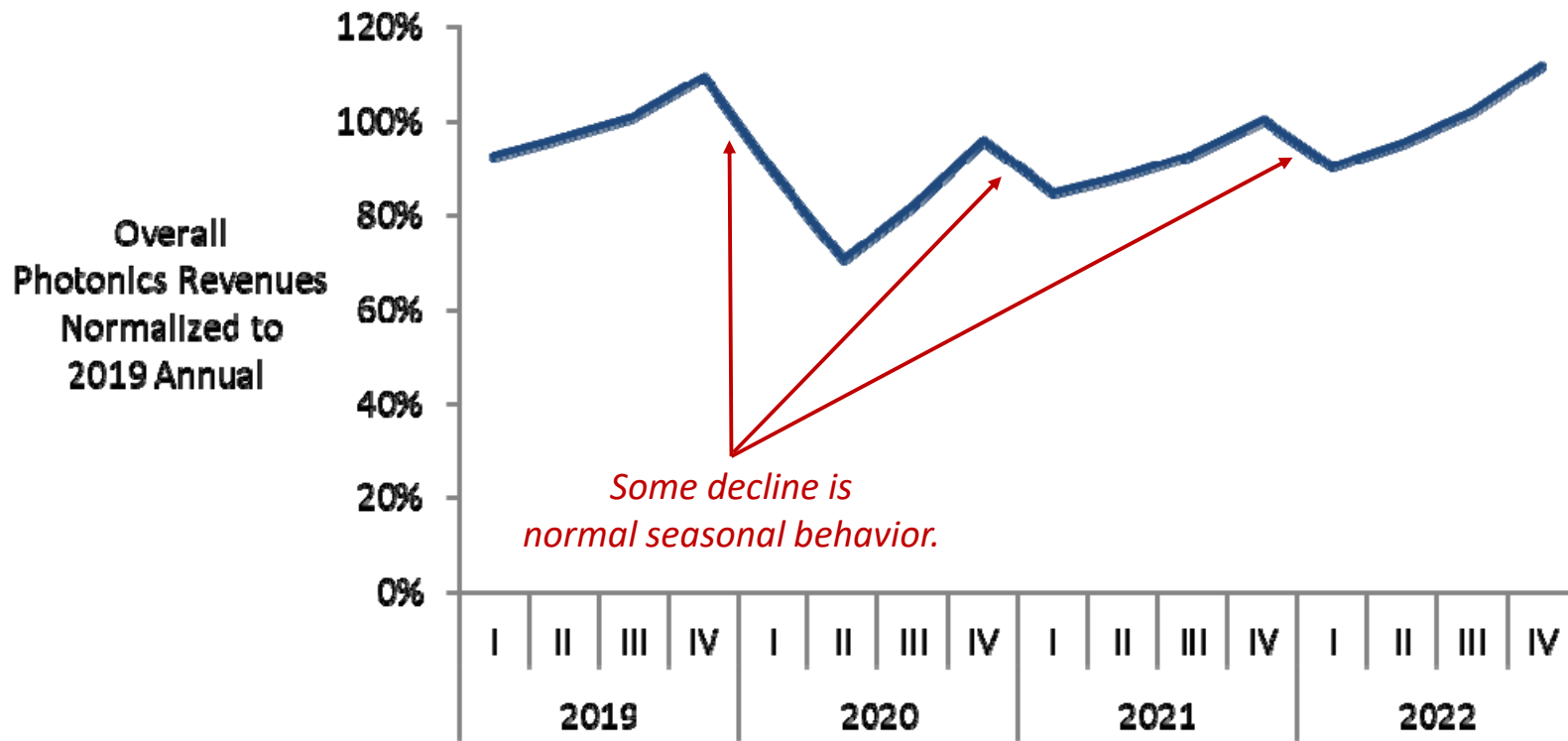
Source: OIDA (May 2020)

“Yes, there will be growth in the spring.”



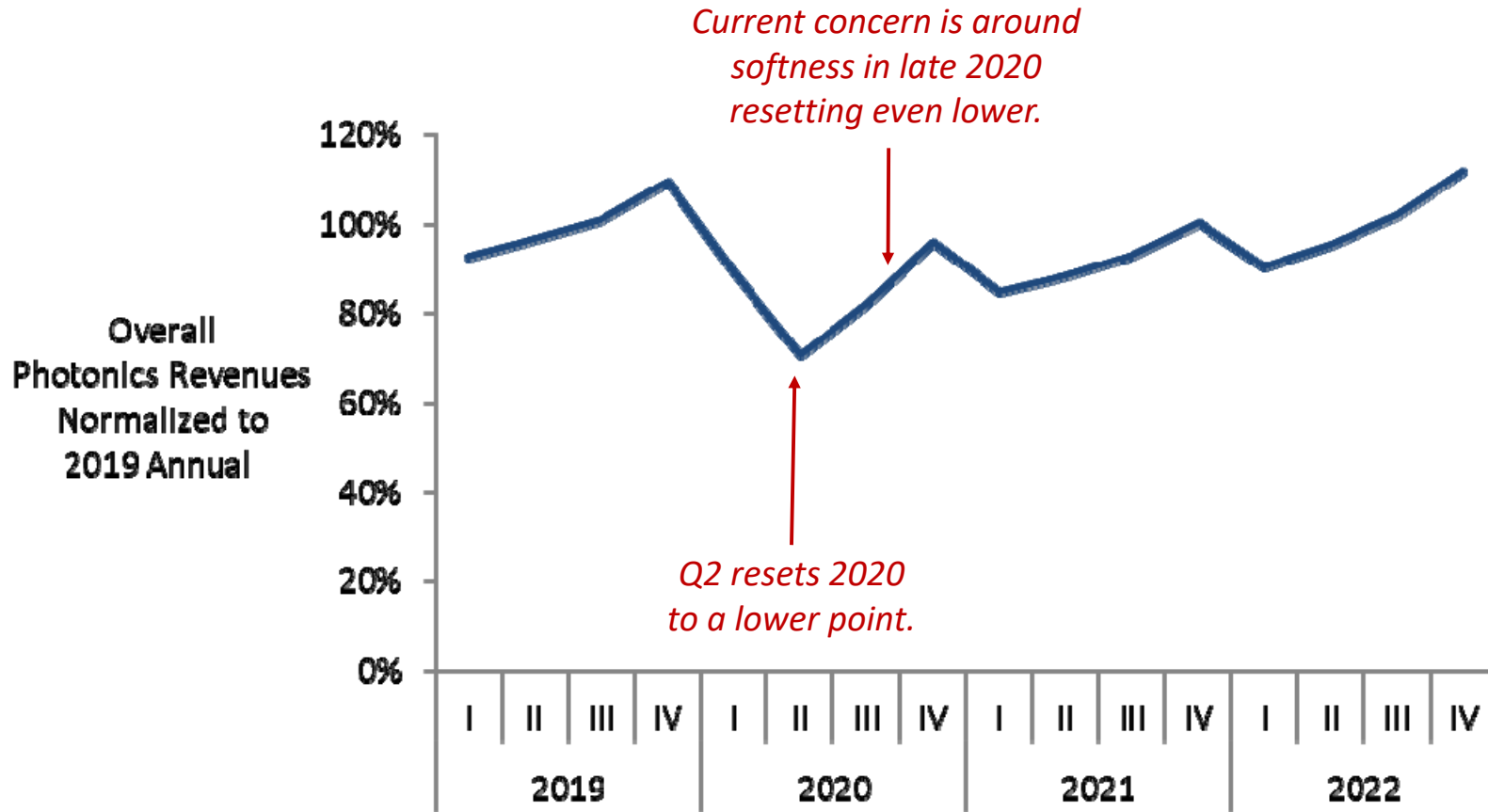
Chauncey Gardiner, from *Being There*.
Source: Everett Collection.

Sawtooth demand-side recovery



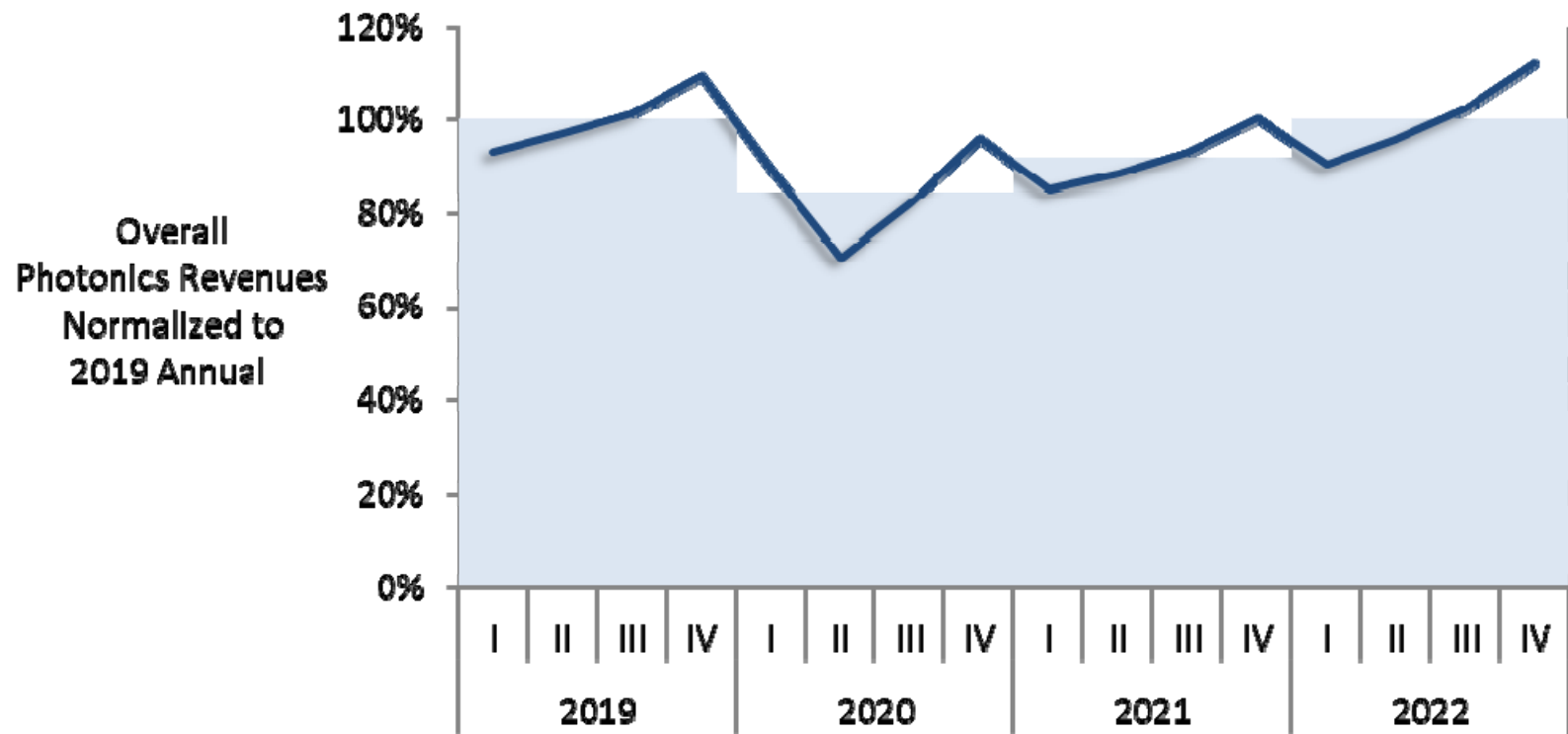
Source: OIDA (May 2020)

Sawtooth demand-side recovery

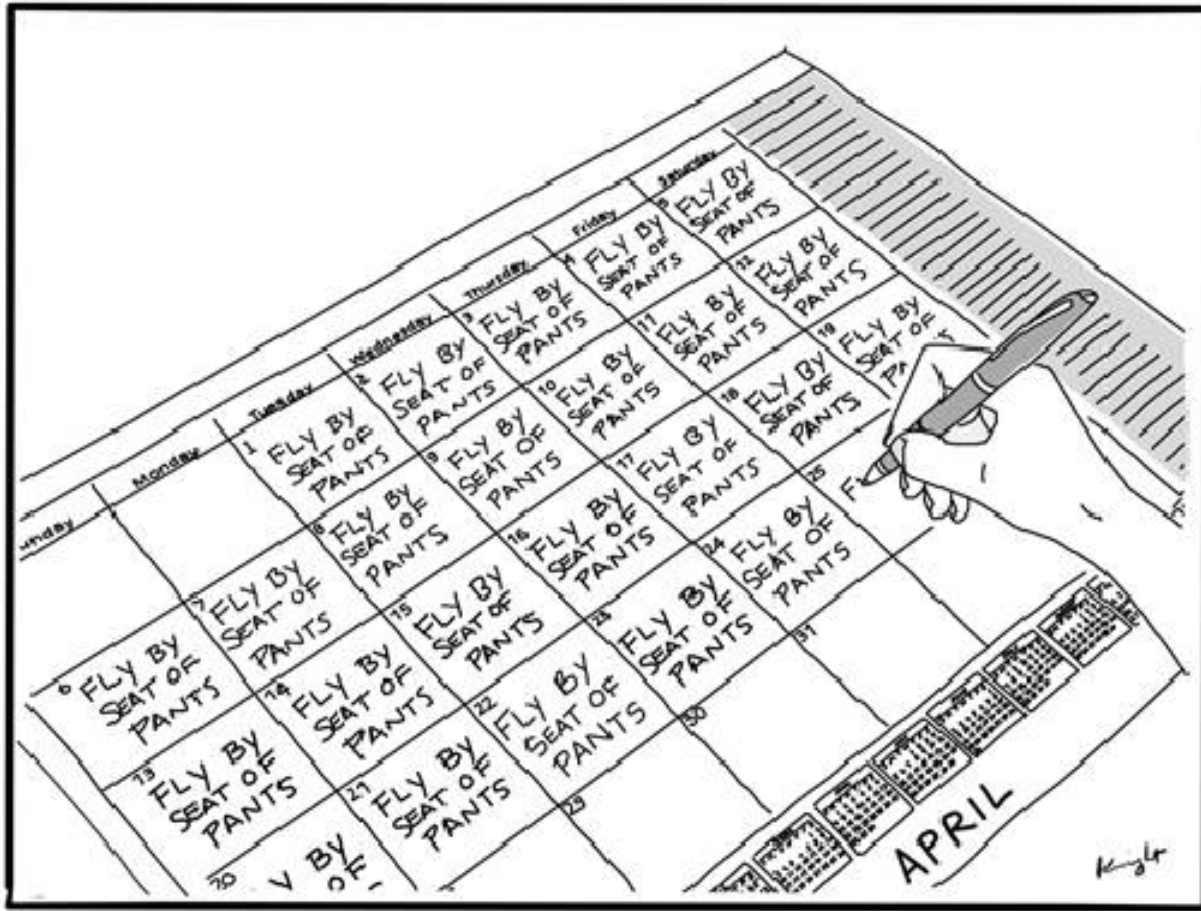


Source: OIDA (May 2020)

Sawtooth demand-side recovery



Source: OIDA (May 2020)



Source: Douglas Knight, CartoonStock.

OIDA webinars on pandemic response

- April 23 OIDA: Maneuvering the supply chain
- April 30 OIDA: Employment law
- May 7 OIDA: Insights from the investment community
- May 8 Optics & Photonics News: Optics and photonics tools in the fight against COVID-19
- May 19 U.S. federal COVID-19 assistance programs for companies
- May 21 OIDA: Customer and supplier contracts
- May 28 OIDA: Methods to enhance liquidity
- June 16 OIDA: Communications market update
- June 17 OIDA: Bringing products to market

And much more: osa.org/industry



OIDA Chair Dr. Simin Cai for the 16 April 2020 webinar.

WE ARE ON

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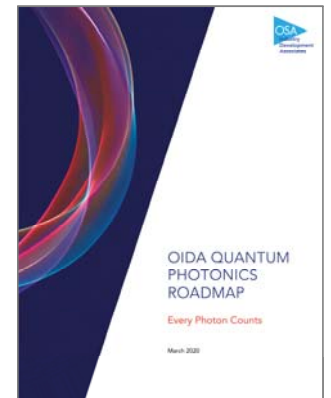


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Thank you!
Questions?
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