

An Invitation to Join the eBeam Initiative

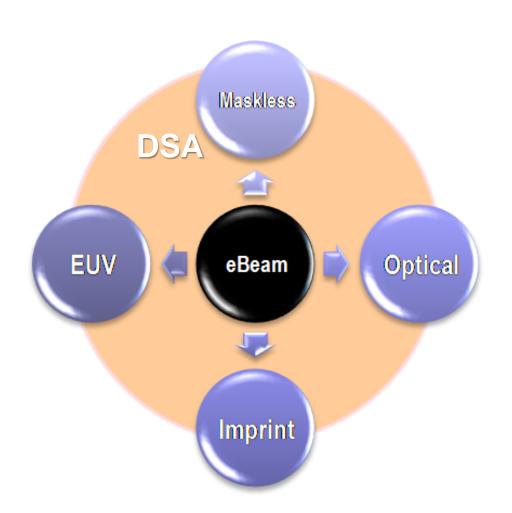
Jan Willis
eBeam Initiative Co-Founder
jan@williscalibra.com

eBeam Writes All Chips



The eBeam Initiative:

- Is an educational platform for eBeam technology and its impact on all lithography approaches
- Open to any company in the semiconductor design chain with an interest in eBeam technologies



Collaboration is our Goal



Accelerates Technology Momentum

Removes Barriers to Adoption

Requires leadership



53 Member Companies













www.ebeam.org



































Grenon Consulting





















KIOXIA

















Jean-Pierre Geronimi

































eBeam Initiative Provides Unique Educational Services



Surveys

- Annual Perceptions Survey (2012-current)
- Mask Makers' Survey (2015-2020)

Events (all free to participants, virtual when necessary)

- Annual SPIE luncheon sessions with technical and business presentations
- Annual SPIE luminaries dinner meeting (by invitation)
- Annual BACUS drinks reception with speakers and survey panel
- Annual sponsorship of CSTIC, PMJ and Photomask Technology Conference

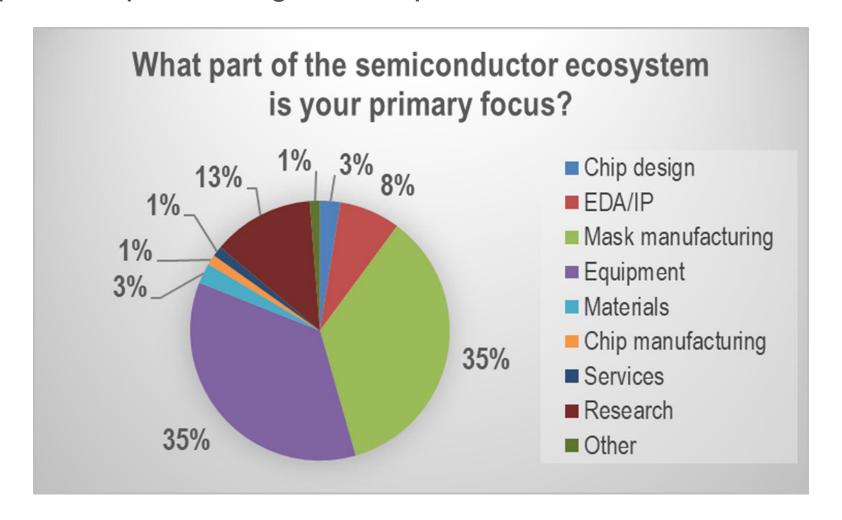
Digital content

- 9+ educational videos annually
- Dedicated website repository for educational materials from surveys, presentations, industry news
- Periodic email newsletters to database >900 contacts
- Annual sponsorship of Semiconductor Engineering

We Survey Luminaries Annually - Since 2012



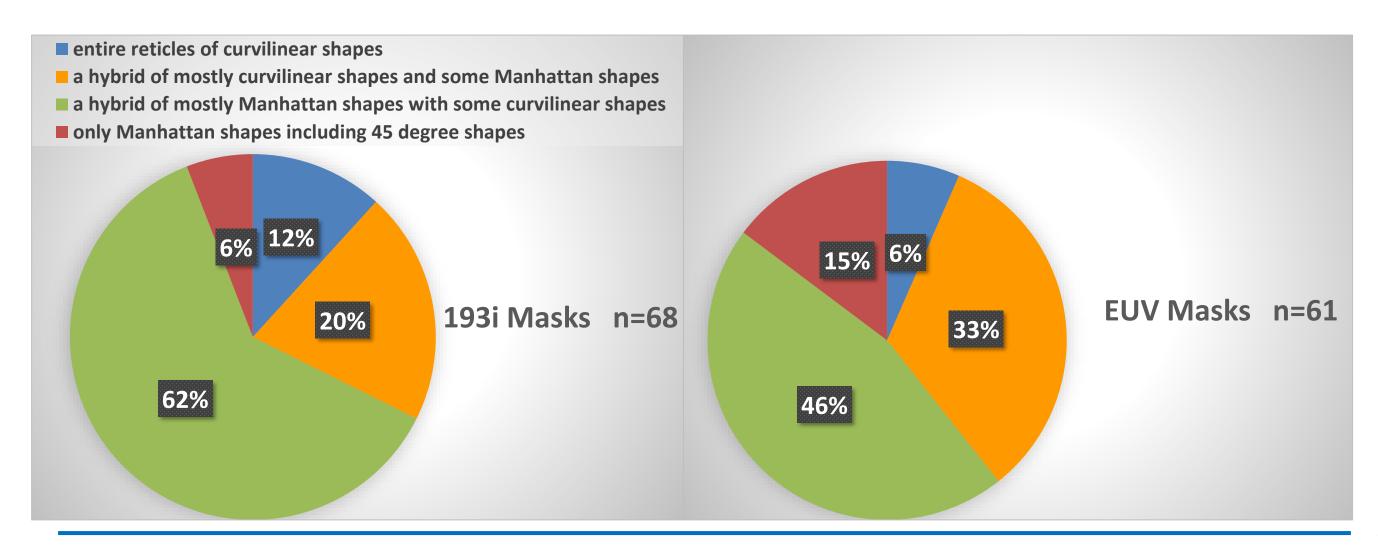
- Unique survey of industry luminaries
- 79 participated representing 44 companies in 2022



Luminary Opinions Provide Insight to Future Trends By 2023, 85% of EUV masks with some curvilinear shapes

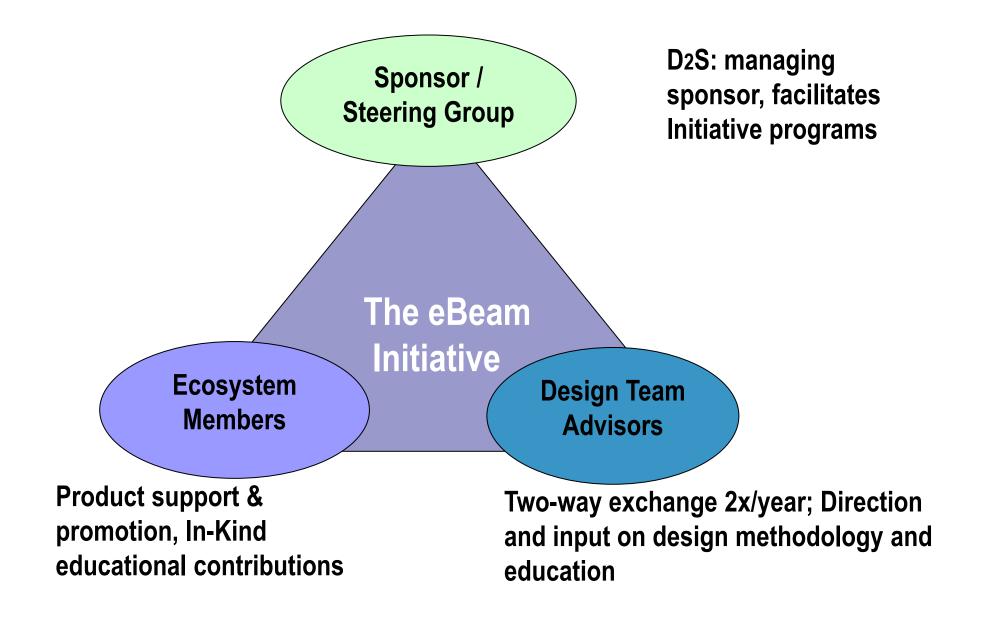


Manufacturing of curvilinear masks is enabled by multi-beam mask writers. How extensively will curvilinear shapes be used for leading-edge (EUV, 193i) masks intended for high volume manufacturing (HVM) by 2023?



The eBeam Initiative Structure





Membership is Free in Return for Contributions



- At least one technical paper, presentation, or video contribution on www.ebeam.org
- New member listed in eBeam Initiative announcement and on ebeam.org



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