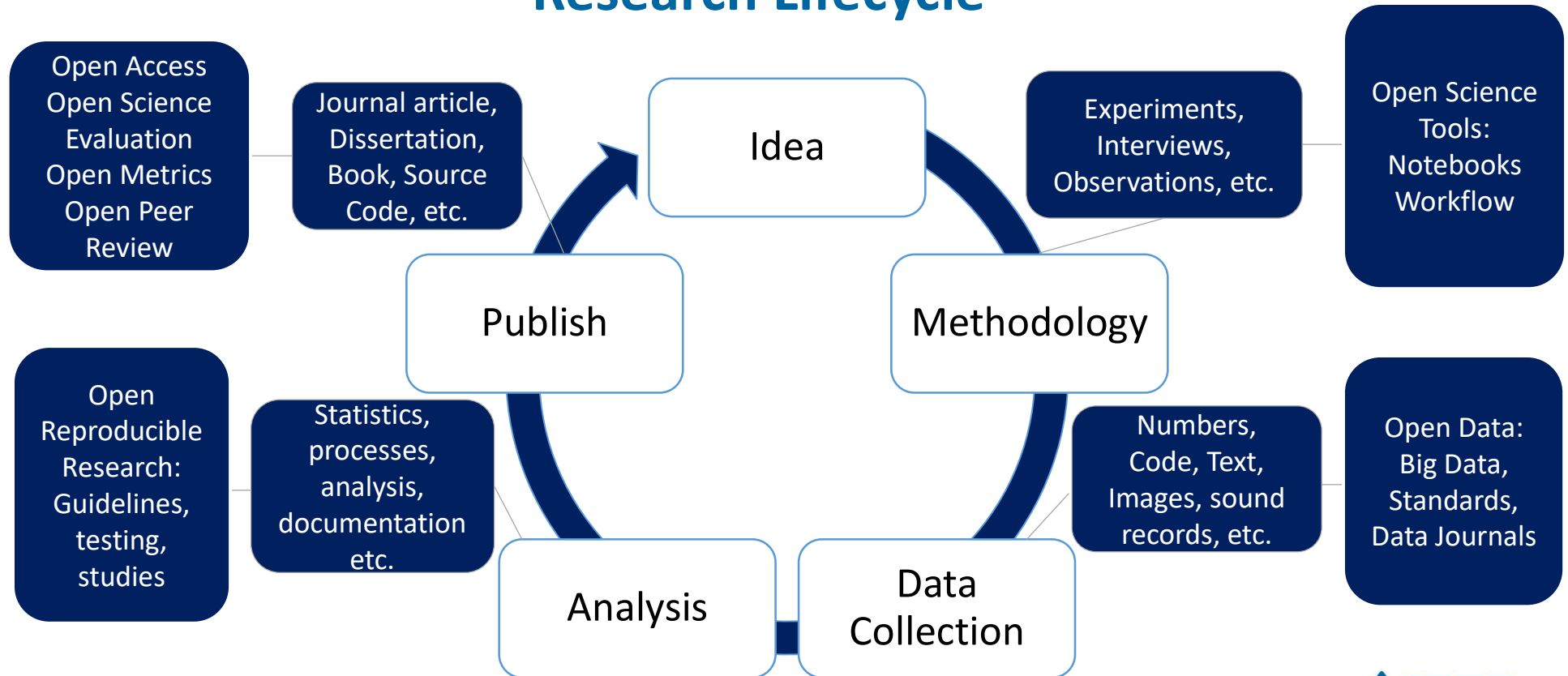




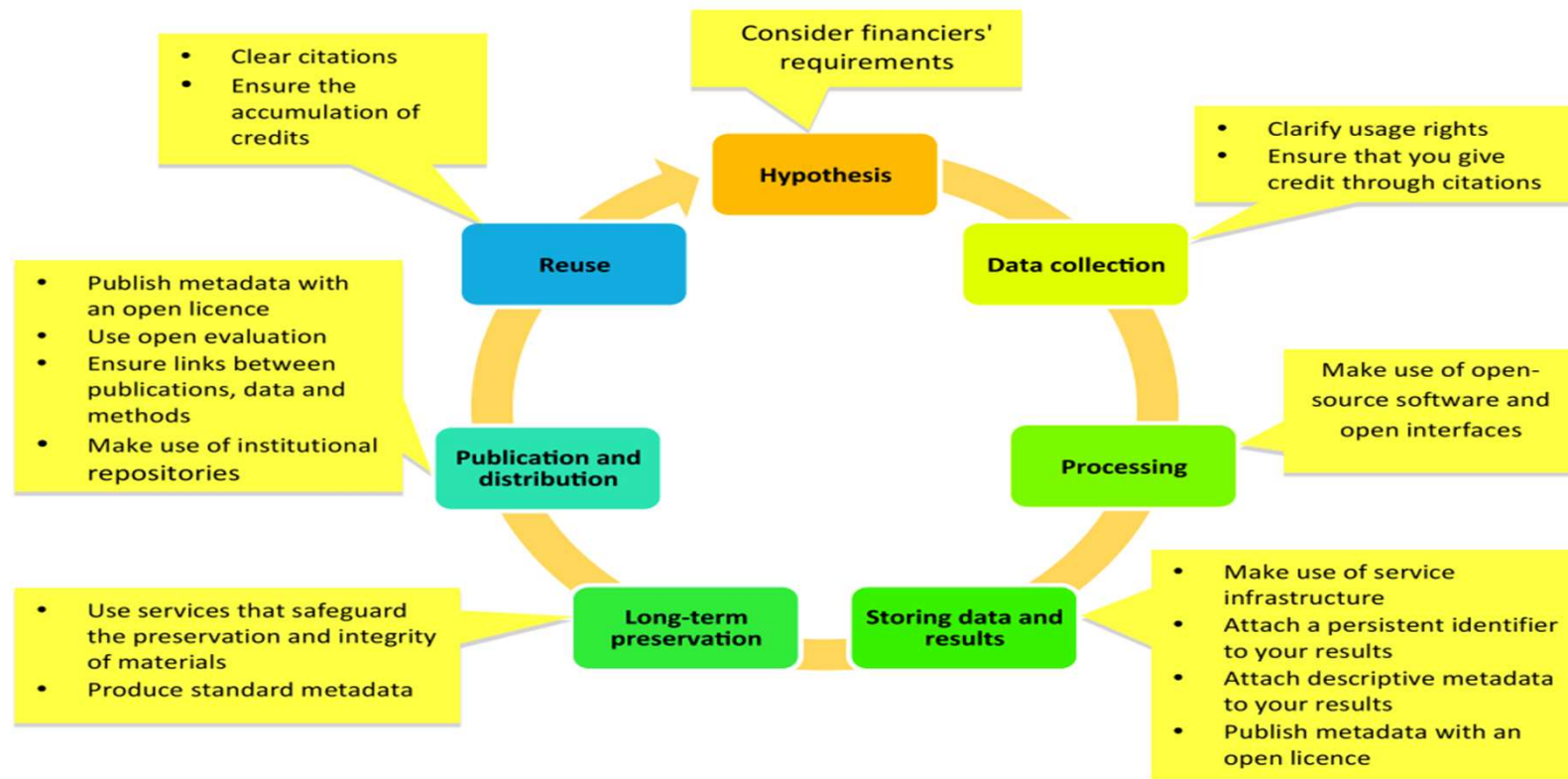
**Advancing Technology With IEEE Open Science Solutions**



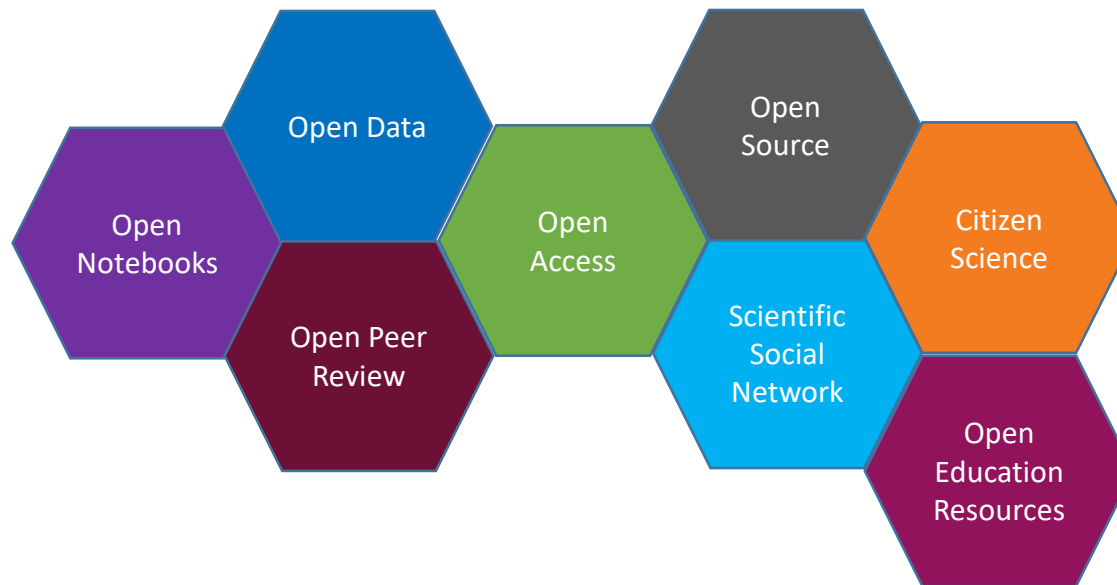
# Research Lifecycle



# Openness At Different Stages Of Research Process

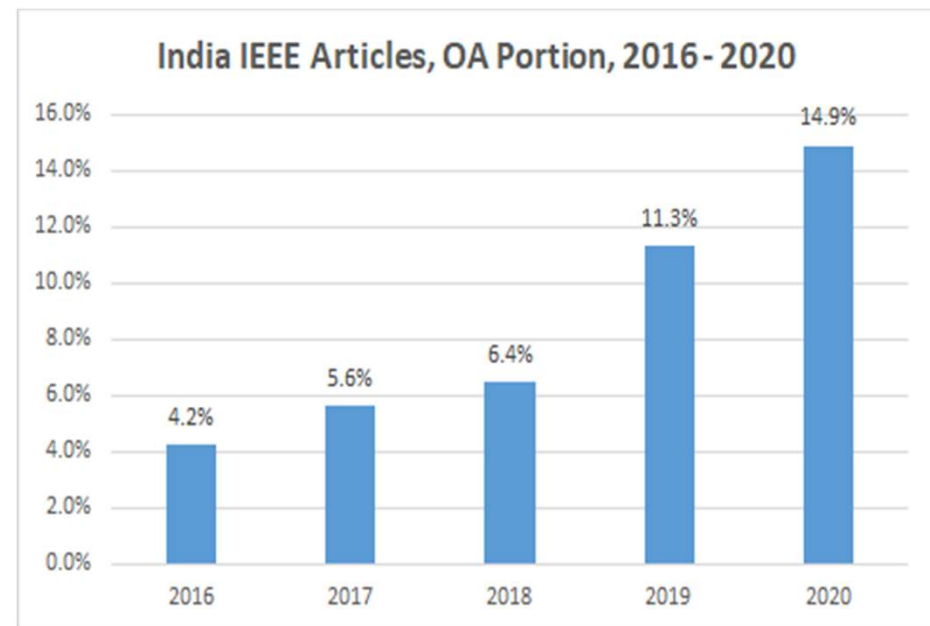
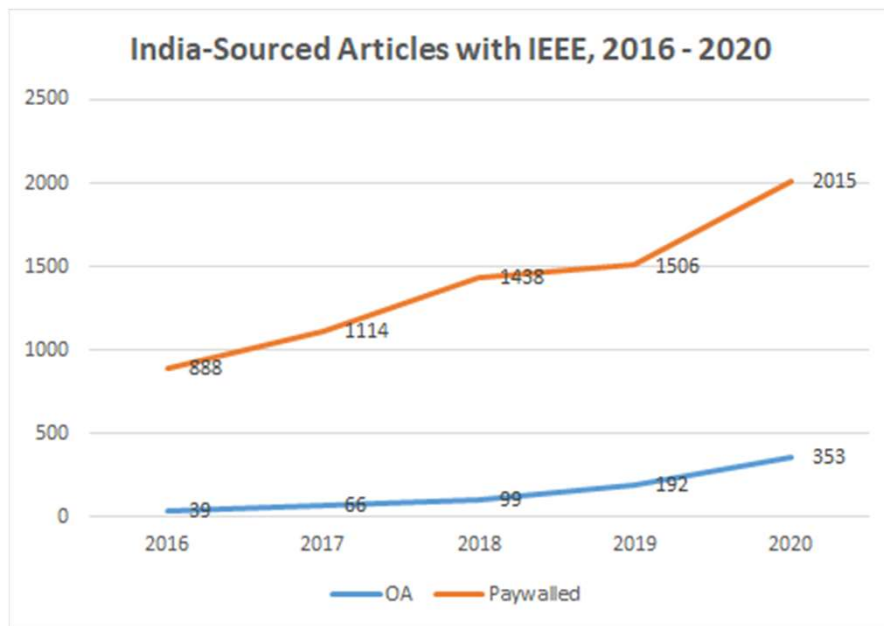


# Open Science Facets As Beehive



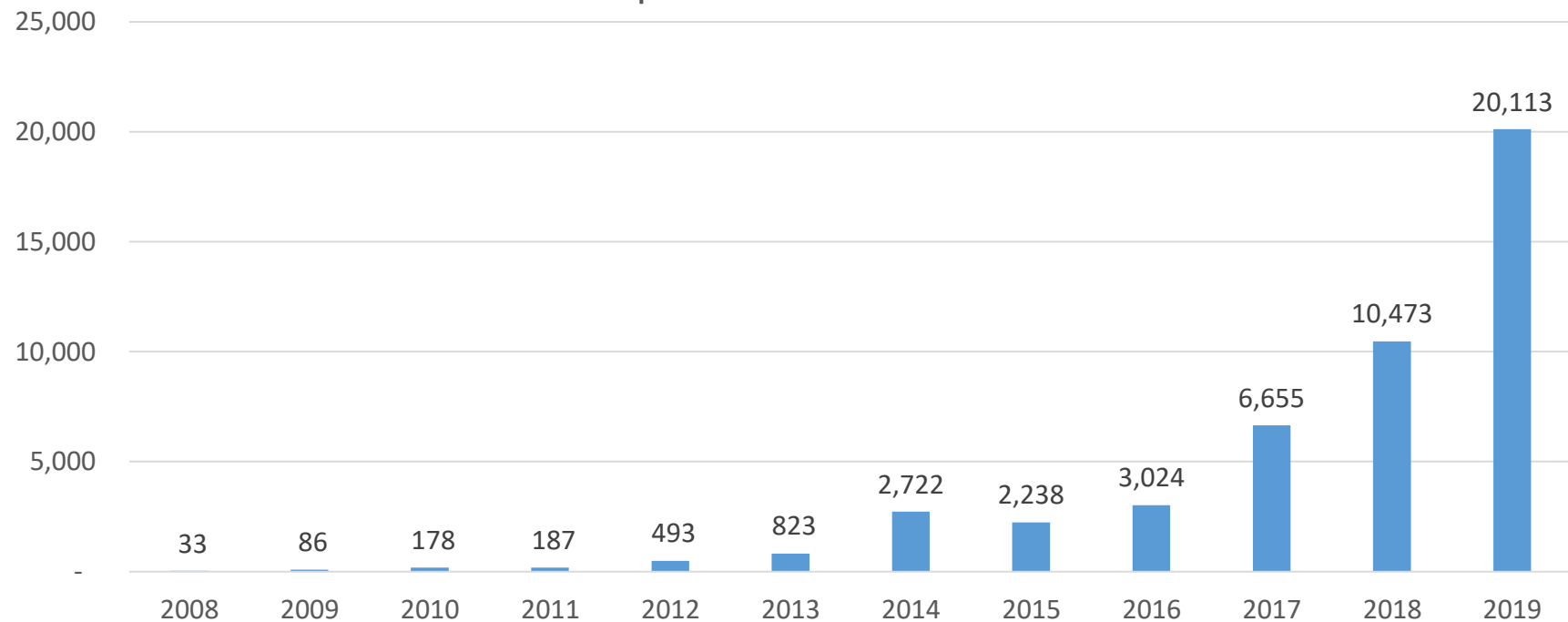
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*How it started – How it's going*

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2016

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2018

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2019

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2020

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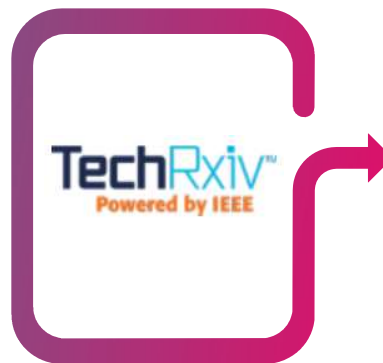
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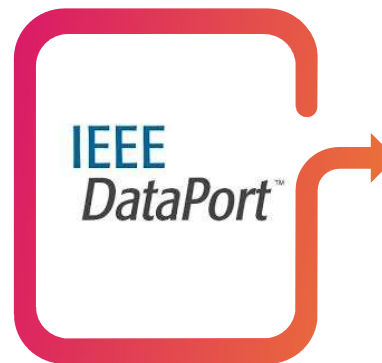
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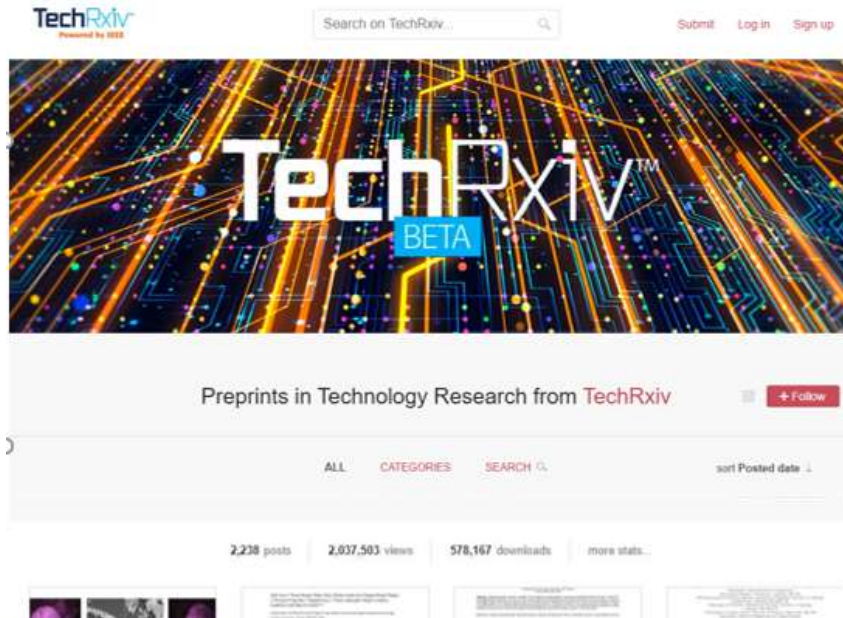
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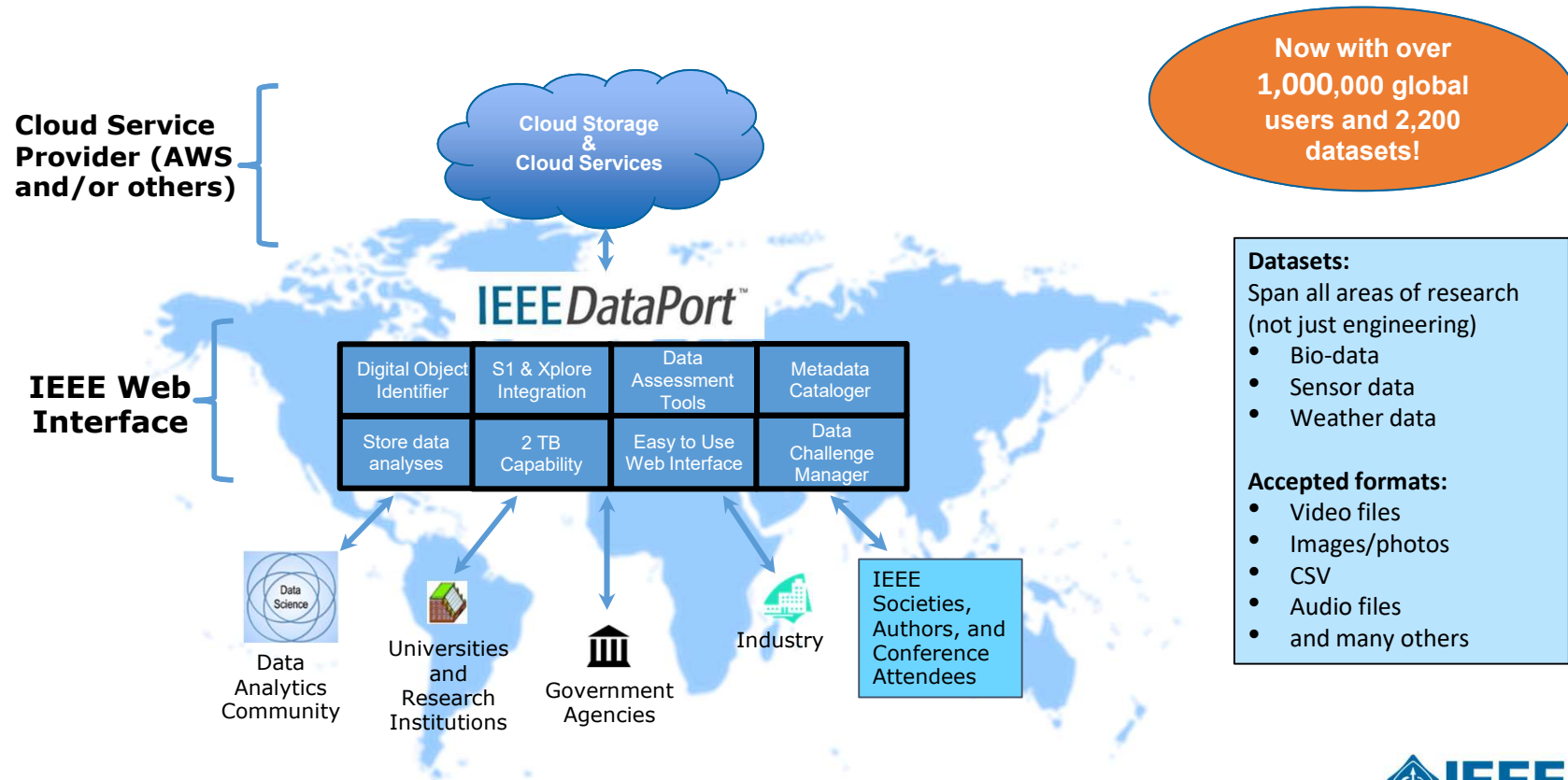
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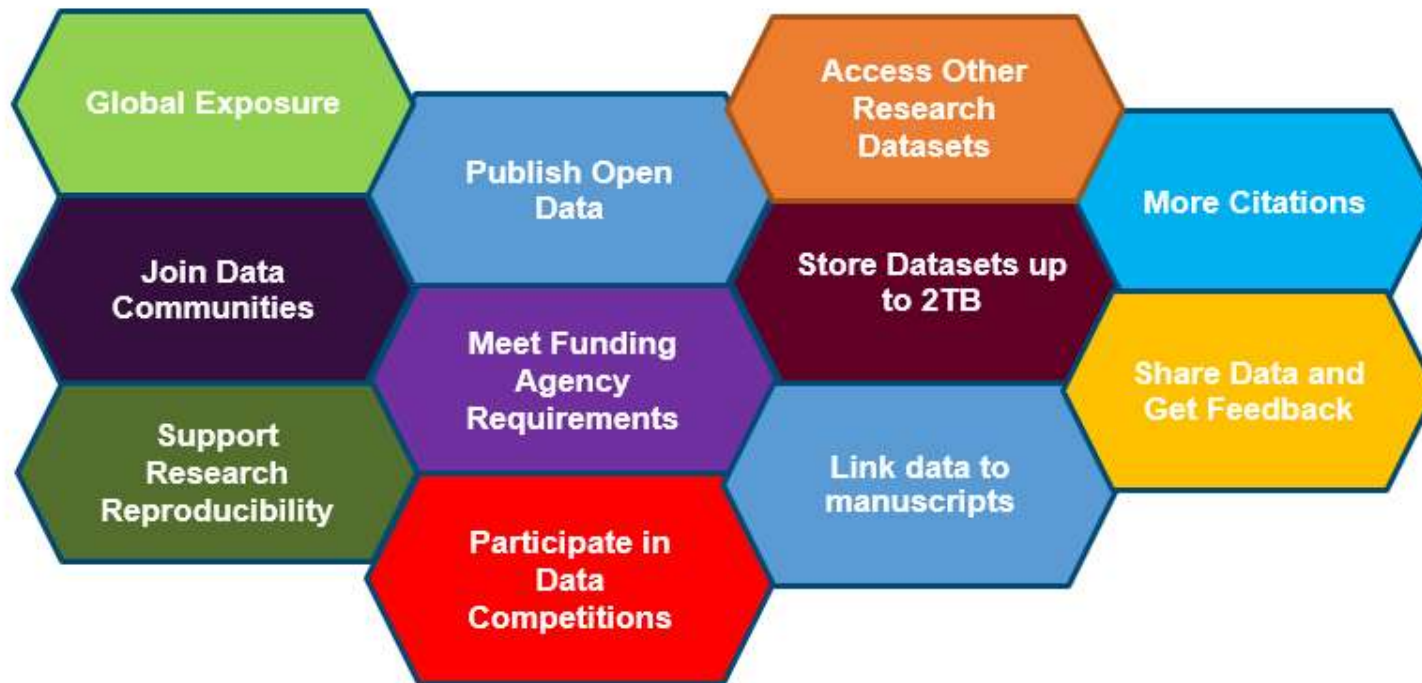
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Conferences (4,129)

Journals (1,601)

Early Access Articles (76)

Magazines (49)

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### Passively Q-Switched 11-Channel Stable Brillouin Erbium-Doped Fiber Laser With Graphene as the Saturable Absorber

H. Ahmad; M. Z. Zulkifli; F. D. Muhammad; M. H Jemangin; K. Dimiyati; B. P. Pal; S. W. Harun

IEEE Photonics Journal

Year: 2012 | Volume: 4, Issue: 5 | Journal Article | Publisher: IEEE

Cited by: Papers (4)

NEWEST

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Ranjan K. Mallik; Ross Murch

IEEE Transactions on Wireless Communications

Year: 2021 | Early Access Article | Publisher: IEEE

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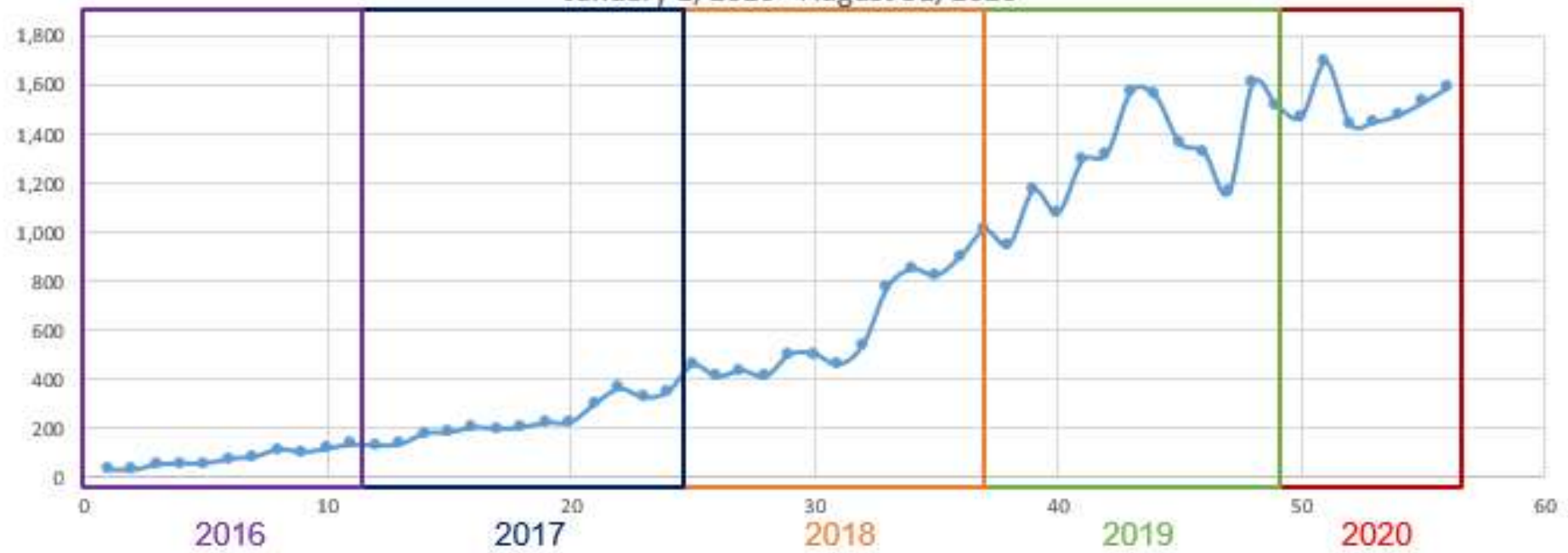
\*2020 survey of IEEE Access authors

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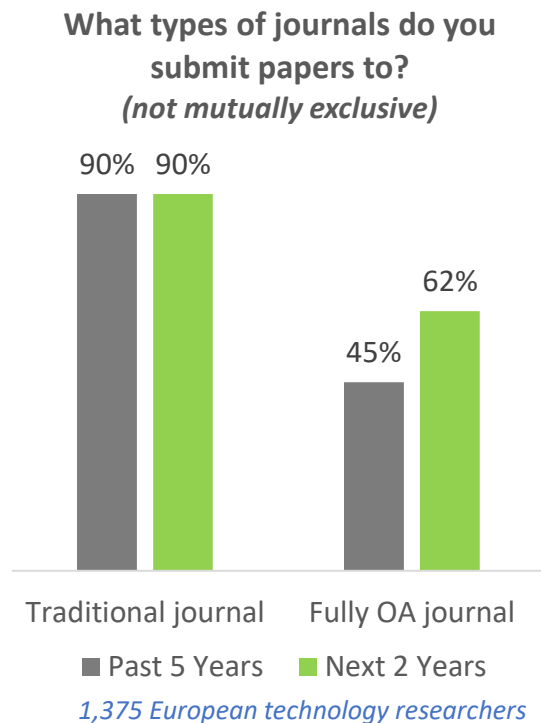
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Source: IEEE/IET Study on Researcher Behavior: Current and Future Trends, 2017”



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2016	250,934	↑ 3.8%	3,024	1.2%
2015	241,832	↑ 5.8%	2,238	0.9%
2014	228,519	↑ 3.0%	2,722	1.2%

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