



ScienceCast, Inc.

Common Equity Shares, Reg CF

ScienceCast gives researchers & science enthusiasts tools they need to better utilize Open Science

\$30K

Minimum Offering Size

\$1.24M

Maximum Offering Size

\$1.24M
offering size

INVEST

WWW.SCIENCECAST.ORG

OFFER DETAILS

TEAM

IMPACT STATEMENT

DOCUMENTS

Q & A

For the first \$45,000 of committed investments, shares will be sold at a discounted price of \$0.50 per share. All remaining shares will be sold at \$0.75 per share.
The maximum offering size is \$1,234,999.50.

ScienceCast

Join the Future of Open Science!

At ScienceCast, in partnership with arXiv, bioRxiv & medRxiv and McKinsey Digital Innovation Team, we are building the foundation of the Open Science Infrastructure. We provide a hub for scientists to conduct and publish their work freely, retaining their copyright and to utilize 21st-century software tools for their research. Our platform connects scientists and the public, making complex ideas more accessible. From AI-generated video pitches to LLM-enriched knowledge graphs, ScienceCast equips all stakeholders with innovative tools to navigate the information age.

ScienceCast bridges Researchers and the Public with State-of-the-Art Digital Tools

Provides Free, Open-Access Publishing with Full Copyright Control for Scientists

Transforms Complex Research into Accessible Knowledge for Everyone

Breaks Down Barriers in Scientific Communication for More Accessible Entry into the Scientific Profession

Pioneers a Continuous, Fair, and Open Peer Review to Replace the Current Biased and Siloed System

medRxiv

arXiv

bioRxiv

Deeply integrated into open repositories



ScienceCast

is a smart hybrid of

LinkedIn

YouTube

Twitter

GitHub

Leading The Open-Science Revolution

Just like most of today's software runs on open-source code, most future research will derive from open-science data. ScienceCast, integrated with open-access publishing leaders like arXiv, will offer scientist-tailored tools akin to GitHub, LinkedIn, Twitter, and YouTube. This integration is set to become an integral part of the emerging open-science infrastructure.

The ongoing open-science revolution is poised to fundamentally change and modernize the antiquated for-profit science publishing model. This current system, built on tolls, restricts access to research data, stifles collaboration, and creates multiple pain points for all stakeholders.

The academic publishing market is significant. But the system is broken.

1. Publishing

The current publishing system is the same as in the 1900s. The money streams in the peer-review system are one-directional.



2. Research

Exponential growth of research data yields information overload (e.g., it would take 150 years to read all papers on COVID!).



3. Community

The existing platforms do not allow for high-quality real-time community interaction and dynamic peer review.



ScienceCast: Addressing Critical Challenges in Science Publishing & Research

Pain Point	ScienceCast Solution
High specialization & complexity of scientific papers	AI- and author-generated elevator pitches of articles with tunable level of expertise
Overflow of scientific data	Smart recommendation engine of papers through audio-summaries
Siloed scientific communities	LLM-enriched interactive knowledge graphs (ontologies) of connected research articles
Conservative job market for academic & high-end R&D industry jobs	Video-enhanced job board for research showcases
Accessibility barriers for people with disabilities	AI-generated audio/video presentations & a talk-to-paper feature
Difficulty with presenting research results	AI-powered presentation builder with an LLM tool to prepare & iterate talks
Broken peer review system	Unbiased AI-powered matching of papers & referees within an open peer-review system linked to arXiv

ScienceCast, in tandem with arXivs, forms the digital open-science ecosystem



1. Publishing

Publish papers through AI-generated audio & video pitches
Shape a fundamentally new peer-review process

2. Research

Smart personalized news feed to conduct research
Talk to papers through a field-specific chat bot
Generate research presentations on the fly using AI tools

3. Community

Interact with the authors directly
Access, analyze and annotate source data
Communicate with collaborators all over the world

Why now?

THE WHITE HOUSE



AUGUST 25, 2022

OSTP Issues Guidance to Make
Federally Funded Research Freely
Available Without Delay

OSTP
BRIEFING ROOM
PRESS RELEASES



Federal agencies are celebrating 2023 as a Year of Open Science, a multi-agency initiative across the federal government to spark change and inspire open science engagement through events and activities that will advance adoption of open, equitable, and secure science.



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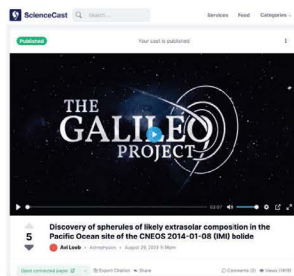
Enter link to your paper, for example: <https://arxiv.org/abs/2301.04657>

Generate AI-Powered SciCast

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Authors, readers, and reviewers are able to employ our tools to publish and review text, audio, and video summaries explaining research. Moreover, these summaries can be customized on the fly to the expertise of the user.



The process is simple: authors link their preprints, and ScienceCast generates text and audio summary based on the full

paper using AI tools and links these summaries back to arXiv.



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scSniper: Single-cell Deep Neural Network-based Identification of Prominent Biomarkers

Hengrui Li, Yashu Chen, Jun Ding
doi: <https://doi.org/10.1101/2023.11.22.568389>
This article is a preprint and has not been certified by peer review (what does this mean?)

Abstract Full Text Info/History Metrics Preview PDF

Abstract

Discovering disease biomarkers at the single-cell level is crucial for advancing our understanding of diseases and improving diagnostic accuracy. However, current computational methods often have limitations, such as a reliance on prior knowledge, constraints to unimodal data, and the use of conventional statistical tests for feature selection. To address these issues, we introduce scSniper, a novel approach that employs a specialized deep neural network framework tailored for robust single-cell multimodal biomarker detection. A standout feature of scSniper is the mimetic attention block, enhancing alignment across multi-modal data types. Moreover, scSniper utilizes sensitivity analysis based on a deep neural network for feature selection and uncovers intricate gene regulatory networks without requiring prior knowledge. Comprehensive evaluations on real-world datasets, including COVID-19 CITE-Seq and LUAD scRNA-Seq, demonstrate scSniper's exceptional ability to identify critical biomarkers consistently outperforming traditional methods like MAST, Wilcox, and DESeq2. The scSniper tool and related experimental codes are publicly accessible at <https://github.com/mingtingding/scSniper>.

Competing Interest Statement

Context and evaluations

Comments 0 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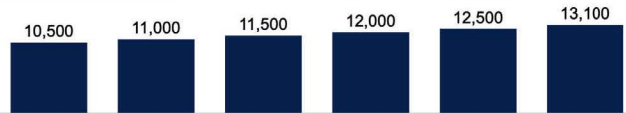
Market Analysis

Total accessible market for University subscriptions (US & EU only)

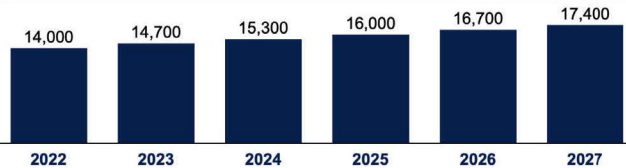
DATA BASED ON MCKINSEY & COMPANY RESEARCH

Development over the next 5 years, USD mn

Conservative scenario



Optimistic scenario



1. A B2B annual subscription model is assumed
2. Includes 248 research universities in the US and 2,330 in the EU. Further potential can be unlocked by addressing universities in other regions (e.g., Asia).

Bottom-up approach

The total addressable market can be sized by considering:

Number of research universities

Average price¹ per university paid to publishers

Assumptions

Total number of universities: 2,578²

Average price per university paid to publishing houses in 2022 range from:

- Conservative: **USD 3.3 mn**
- Optimistic: **USD 4.4 mn**





An average **price growth of 4.4% YoY** is assumed

**Beyond the niche of university libraries,
ScienceCast taps into a multitude of substantial markets.**



We conservatively estimate the total addressable market in the range of \$US 50 billion annually. Digitization is growing this market.

Multichannel Business Model

	Target	How?	When?
	B2B	Enterprise subscriptions to selected publishers, open-science repositories, Universities, etc.	now
	Consulting services	Providing consulting in deep technology fields from quantum technology to biomedical research, leveraging the expertise of both founders & users.	now
	Government agencies	Contracts & grants for with federal agencies for providing tools to facilitate compliance with the White House open-science order.	~6 months
	B2C	"Freemium" model (like LinkedIn). Core functionalities will remain free & open-access, but ScienceCast will charge for premium features.	~12 months

The bottom-up business case estimates revenues of USD ~70–230mn by 2028

DATA BASED ON MCKINSEY & COMPANY RESEARCH

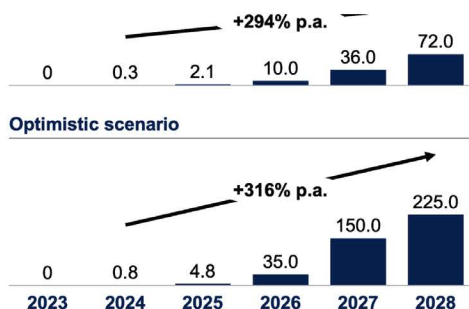
B2B Revenues for ScienceCast, USD mn

Conservative scenario

Assumptions

Number of B2B customers

2024	2025	2026	2027	2028
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Conservative	30	70	200	400	800
Optimistic	50	120	500	1,000	1,500

Price of ScienceCast, USD

	2024	2025	2026	2027	2028
Conservative	10k	30k	50k	90k	90k
Optimistic	20k	40k	70k	150k	150k

Reasons to Invest in ScienceCast

Your backing of ScienceCast is more than just a personal investment; it is an investment in pursuing a future where science is more connected, accessible, and vibrant for everyone. Your support of ScienceCast will help with:

Enhancing Open Access to Scientific Knowledge: Your contribution to ScienceCast champions the critical movement towards open access in scientific research, facilitating the free flow of information.

Democratizing Science Communication: Your investment will help us make complex scientific concepts accessible and engaging, bridging the gap between intricate research and public comprehension.

Tackling Information Overload in Research: With your support, ScienceCast will develop AI-driven tools to efficiently manage the increasing volume of scientific data, potentially uncovering hidden discoveries of profound global impact.

Catalyzing Global and Interdisciplinary Collaboration: Your support will aid in creating an open-science infrastructure that will break down geographical barriers and foster interdisciplinary connections, enriching the research process.

Advancing Digital Innovation in Research: Your contribution will facilitate the integration of cutting-edge digital tools like AI and ontological knowledge networks, ensuring that research happens at the forefront of technological capabilities.

Championing Inclusivity in Science: By supporting ScienceCast, you are ensuring that science remains open and accessible to everyone, including those with disabilities, embodying the true spirit of inclusive science.

Igniting a Passion for Science & Learning: Investing in ScienceCast means supporting an ecosystem that not only educates but also ignites a lifelong love for science & discovery among people of all ages.

Our Collaborations



McKinsey
& Company



Growth Plan

In the next phase of our project, we will strategically allocate investor funds to enhance our technological suite, developing advanced tools integral to our platform's growth and user engagement. Simultaneously, we are prioritizing the expansion of our partnership network, specifically targeting entities serving the open science movement, including prominent educational institutions.

Key Advisors



Dr. Brian Greene

Dr. Brian Greene is a Key Advisor and a Member of our Board of Advisors. In addition to being Director of Columbia University's Center for Theoretical Physics, Dr. Brian Greene is the co-founder of the World Science Festival and the author of a new book, "Until the End of Time," which is about mind, matter and the human search for meaning in an evolving universe. The mission of the World Science Festival is to bring live and digital science programming to broad public audiences.



Arsalan Farooq

Mr. Arsalan Farooq, a Key Advisor and Member of our Board of Advisors, is now a Product Leader at Google Cloud, and boasts extensive experience across various tech domains, including cloud services, big data, IoT, and more, underlining his journey as a tech executive and former CEO of Netifi. He contributes his expertise as a mentor at Alchemist Accelerator, significantly impacting areas like digital transformation, DevOps, and open-source models.



Dr. Richard Sever

Dr. Richard Sever, with notable academic credentials from Oxford and Cambridge, is a Key Advisor and a Member of our Board of Advisors. Dr. Sever co-founded the influential preprint servers bioRxiv and medRxiv and holds a key role at Cold Spring Harbor Laboratory Press. He initiated the specialized journal Cold Spring Harbor Molecular Case Studies and has served as an editor for several prominent scientific publications.

Team Members





Andrew Jiranek

Mr. Jiranek, co-founder and CEO of ScienceCast, leverages his more than 35 years experience as a corporate attorney and business executive who has guided start-ups offering innovative technology through the legal and financial issues associated with their early stage scaling of operations. Holding a J.D. from William & Mary and an A.B. in Economics from Princeton University, he specializes in various fields, including business development, protecting IP, acquiring talent and strategic thinking.



Dr. Victor Galitski

Dr. Victor Galitski, our CTO, holds two PhDs in applied mathematics and quantum physics. He currently serves as the Chesapeake Chair Professor of Theoretical Physics at the Joint Quantum Institute, University of Maryland. A prolific author with over 200 publications and an editor of a prominent physics journal, he has extensive familiarity with all aspects of academic publishing.



Dr. Prineha Narang

Professor Prineha Narang, an Executive Vice President, is renowned for her contributions in theoretical and computational science, having transitioned from Harvard University to lead a research group at UCLA, receiving multiple esteemed awards like the Maria Goeppert Mayer Award and the Moore Inventor Fellowship. She also founded Aliro, focusing on quantum networks, and serves as a U.S. Science Envoy for the State Department.



Dr. Steinn Sigurðsson

Dr. Steinn Sigurðsson, the Chairman of our Board of Directors, is also an esteemed Professor of Astronomy at Penn State University and Scientific Director at arXiv. Dr. Sigurðsson, has significantly influenced the STEM field and has authored over 100 notable publications and is the Scientific Director of innovative projects like arXiv Labs, a leader of the Open Science Movement. Dr. Sigurðsson's acclaimed research is supported by organizations such as NASA and NSF. Dr. Sigurðsson has an active role extends with the Aspen Center for Physics, particularly in private fundraising efforts.



Dr. Charles W. Clark

Dr. Charles W. Clark, an Executive Vice President, has had a distinguished 30-year career with NIST and the Office of Naval Research, receiving numerous awards, including the U.S. Department of Commerce Gold Medal and the Distinguished Presidential Rank Award. He is an expert in advanced fields such as quantum computing and artificial intelligence, influencing significant technological and governmental policies.



Dr. John Beverly

Dr. John Beverly, an Executive Vice President, is an authority in knowledge graph engineering, formal logic, and semantic web technologies, and also currently serves as an Assistant Professor at the University of Buffalo and Vice President and a Member of the Board of Directors of the National Center for Ontological Research. Dr. Beverly was formerly a Senior Ontologist at Johns Hopkins University and continues to work in various capacities with his former colleagues there.. He earned his PhD in Philosophy from Northwestern University in 2021, building on prior philosophical studies at the State University of New York and NC State University.



Vacheh Joakim

Vacheh Joakim, our Executive Vice President of Sales & Marketing, joined us in July 2022 and is based in Los Angeles. With 18+ years in SEO and web marketing, including roles as Director of Operations at Submit Express, Inc., he has extensive experience in digital marketing, web development technologies, and SEO. He founded Evolutionary Business Arts in 2009 and has a strong background in leading successful SEO campaigns.

ScienceCast is committed to the open science movement and intends to contribute 5% of its profits to non-profit organizations with shared values. ScienceCast is eligible to raise investment funds on The Impact Crowd by satisfying predetermined Impact Criteria defined by The Impact Crowd, including the pursuit of social impact in the following categories:

1. Educational improvements
2. Intention to donate a percentage of profit to non-profit organizations that support the open-science ecosystem

To read our full Impact Statement, please click the Impact Statement tab.

Risks of Investing

Required Statement:

A crowdfunding investment involves risk. You should not invest any funds in this offering unless you can afford to lose your entire investment.

In making an investment decision, Investors must rely on their own examination of the issuer and the terms of the offering, including the merits and risks involved. These securities have not been recommended or approved by any federal or state securities commission or regulatory authority. Furthermore, these authorities have not passed upon the accuracy or adequacy of this document.

The U.S. Securities and Exchange Commission does not pass upon the merits of any securities offered or the terms of the offering, nor does it pass upon the accuracy or completeness of any offering document or literature.

These securities are offered under an exemption from registration; however, the U.S. Securities and Exchange Commission has not made an independent determination that these securities are exempt from registration.

Additional statement:

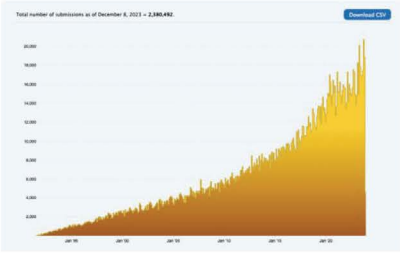
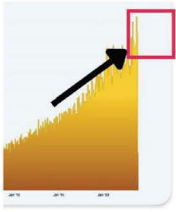
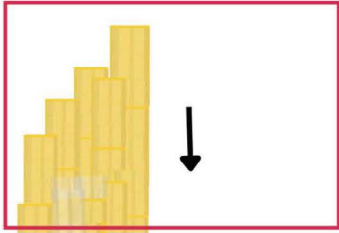
There are many risks to consider when making this investment. Please see EXHIBIT B for a more expansive list of potential risks associated with an investment in the Company.

ScienceCast's video is coming soon. The planned script for this video can be viewed below:


ScienceCast.org Video Script

[90 seconds | 144 words]

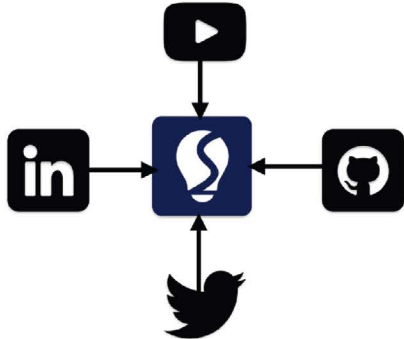
No.	Voiceover [144 words]	Visuals
		<p>Note to animator: See images from the client's slide deck below for animation style references and color palette.(Every month, '20,000' papers are submitted to arXiv.) When visualizing references, make the correction.</p> <p>Every month, ~15,000 papers are submitted to arXiv Every month, arXiv has 5 million' active users</p> <p>1 Researcher give their work to publishing houses for free</p> <p>2 Publishing houses request peer review from research colleagues</p> <p>3 Researcher peer review the articles for free</p> <p>4 Researcher / university needs to pay to get access to their research</p>
#1	Did you know that 90% of the world's scientific data was created in 2023?	<p>Open with a sleek, accurate, animated representation of the following graph representing the explosion of data, showing the graph growing rapidly from left to right:</p>



		 <p>A circle emphasizes the top right point of the graph, showing the text "90% in 2023". (* Update Visual from 15,000 - 20,000 *)</p>
#2	<p>This could mean research on curing cancer or better energy solutions may have already been invented, but it's lagging behind a broken peer review system or buried under an avalanche of low-quality data.</p>	<p>Zoom into the top right corner of the graph. As we zoom in, we reveal that the graph is made up of hundreds upon hundreds of scientific papers, representing studies and data.</p> <p>We start moving downwards along the right edge of the graph.</p>   <p>As we move downward, a few colorful, professional papers with scientific visuals</p>

		<p>float upwards as if we're passing them by. The studies have titles like "Cure for cancer" and "Room temperature superconductor".</p> <p>These studies are swarmed and covered by several low-quality, black-and-white papers and clickbait web articles that completely bury the articles, also appearing from below</p>
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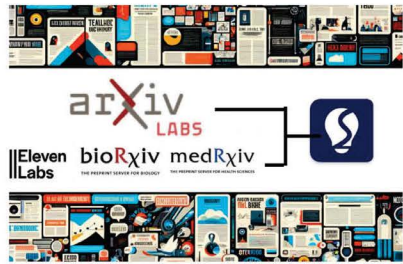
		<p>as we move down.</p> <p>Some of the article titles are readable, including:</p> <ul style="list-style-type: none"> • Is Science Fake!!? • Gravity Could Be Placebo!? • NEW STUDY SHOWS... • Can Quantum Mechanics REPAIR CARS?? • Clickbait Scientifically PROVEN
#3	With this avalanche of information, how do you know what to trust?	<p>We reach the foot of the graph and the articles disappear.</p> <p>Show a tiny figure looking up at the mountainous graph above him, with a shadow of the graph looming over him.</p> 

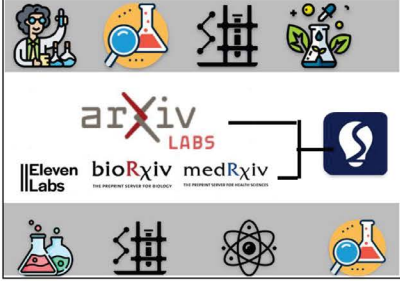
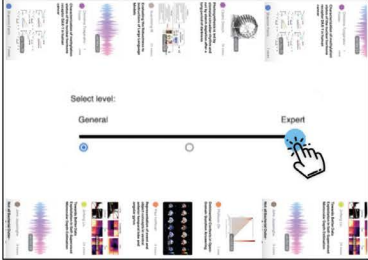
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		<p>Show the following text in sleek typography animation:</p> <p>How do you know what to trust?</p>
#4	Introducing ScienceCast, a platform that connects quality data with a newer, better model of peer reviewing.	<p>Cut to a new scene. Show customized icons for LinkedIn, YouTube, twitter, and Github merging into the ScienceCast logomark.</p>  <p>The logomark then expands into the full logo.</p>

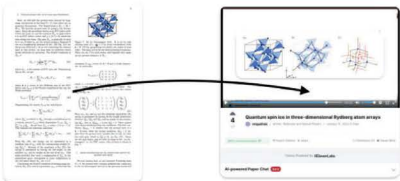
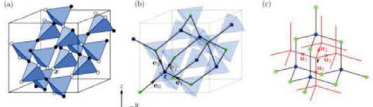
		 ScienceCast
		<p><u>Visual option 2:</u></p> <p>A sleek, animated version of the research ecosystem appears with corresponding text "Publishing, Research, Community".</p> 

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		<p>The three icons then merge into one, forming the ScienceCast lightbulb logomark. The logomark then expands into the full logo.</p>
#5	<p>In close partnership with leading open repositories like arXiv, ScienceCast extracts the pearls from this sea of data</p>	<p>Transition to a new scene. Show the logos of ScienceCast's partners in the center of the screen, emphasizing the arXiv logo.</p> <p>At the top and bottom the the frame, show two bands showcasing a messy collage of the articles and low-quality papers that appeared before:</p>   <p>Then, the ScienceCast logomark appears to the right of the other logos. A line connects the logos to the ScienceCast logomark:</p> 

		<p>A mouse cursor flies out and clicks on the ScienceCast logomark.</p> <p>Then, simple animated icons representing different fields of science pop out, replacing the mess of articles and papers with clear icons. See reference below:</p> 
#6	and presents it at adjustable levels of expertise.	<p>The logos are replaced by an animated slider representing the level of expertise. A mouse cursor flies in and moves the slider from left to right, changing the level from "General" to "Expert".</p> <p>As the slider moves to expert, the band at the top and bottom slide from right to left, revealing more complicated visuals and SciCast previews of actual papers.</p> 

#7	Authors can easily disseminate their research	<p>Transition to a scene showing complicated data (e.g. a very intimidating-looking quantum mechanics paper) on a computer screen. Show the paper sleekly transforming into an engaging, easy-to-understand ScienceCast format.</p> <p>See visual reference below, generating this paper to this SciCast:</p>
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		 <p>The SciCast is made up of a sleek interface of a video preview with the headline and an AI-powered chat field.</p> <p>The video preview shows sleek, animated representations of the following images from the paper:</p>  <p><i>Note: the SciCast shouldn't be an exact copy of what is seen on the website's layout (the website layout might change) but should still communicate the same visual layout.</i></p>
#8	while maintaining their copyright and keeping ownership of all their data, ushering an outdated publication industry into the 21st century.	<p>The video preview changes to the following list that's bulleted by lightbulbs, scrolling downwards to emphasize the amount of features and benefits:</p> <ul style="list-style-type: none"> 💡 Open Science Infrastructure

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		<ul style="list-style-type: none"> 💡 Free, Open-Access Publishing 💡 Full Copyright Control 💡 AI Generated Pitches 💡 State-of-the-Art Tools 💡 Breaking Down Barriers 💡 Accessible Science 💡 Fair Peer Review System 💡 Collaborative advancement 💡 Bridging Researchers and the Public
#9	Invest in the future of open science and become a stakeholder in ScienceCast today.	<p>Transition to a new scene.</p> <p>In the center, we see the ScienceCast logo, with an "INVEST" button below it. A cursor flies in and clicks on the button.</p> <p>Around the logo and the button, we see sleek, animated device screens (suggesting computer, tablet, and mobile devices), all showcasing different SciCasts from the website, emphasizing the platform's</p>

widespread appeal, modern approach, and accessibility.

See below for visual inspiration:



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Some issuers provide financial projections for some of the investment opportunities listed on the Site. All such financial projections are only estimates based on current conditions and current assumptions. The actual result of any investment is likely to be different than the original projection, often by a large amount. Neither the Securities and Exchange Commission nor any state agency has reviewed the investment opportunities listed on the Site.

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Need Help?