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# Skysong Innovations

## Impact Report 2018

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*Skysong Innovations works with Arizona State University and other partner institutions to translate research into real-world impact.*

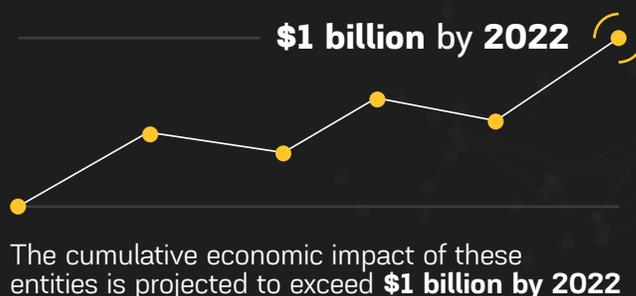


**Since its founding** as AzTE in 2003, Skysong Innovations has worked to revolutionize the university technology transfer model, with an emphasis on speed to market, flexibility, and deal flow. Fiscal year 2018 was another banner year for the organization, which set new records with 285 invention disclosures, 123 patents, 78 licensing agreements, and 17 startups launched.

**This activity is generating substantial local economic impact.**

The Seidman Research Institute examined ASU's tech transfer impact between 2016 and 2018. As a result of the operations of SI and 40 ASU-linked companies, Arizona's economy gained a cumulative:

- **\$402.8 million** in gross state product
- **\$271.6 million** in labor income
- **4,152** job-years
- **\$36.4 million** in state and local tax revenues over that timeframe



**2018**  
HIGHLIGHTS

Two researchers at the ASU Biodesign Institute developed self-folding DNA nanostructures that may radically change how medical therapies are delivered. Professors Hao Yan and Yung Chang are collaborating on projects that could eventually lead to fully autonomous cancer-fighting nanorobots.

**Two ASU-linked startups received FDA** clearance for clinical applications. EndoVantage simulates the effect endovascular implantations and subsequent blood flow changes will have in a patient's body, aiding surgeons and medical device manufacturers. NeoLight's portable phototherapy beds are being used in the U.S. and developing countries to treat jaundice, which can be fatal in infants.

Skysong Innovations helped launch the ASU Thunderbird Investor Network, linking ASU students, faculty, and staff with a committed network of potential investors.

ASU now ranks in the top 20 of all universities worldwide for U.S. patents awarded. The 123 issued U.S. patents almost doubled the number achieved as recently as 2016.

In FY 2018, ASU startup companies raised \$50.5 million in new venture funding. ASU-linked startups have now attracted more than \$300 million in the past five years and almost three-quarters of a billion dollars overall.

**The ASU California Center** continues to be the SoCal hub for Skysong Innovation's entrepreneurial activities, providing exposure for ASU and facilitating contacts with the investment community. The SoCal Startup Mill has grown to a network of 17 entrepreneurs and business executives. In 2018, ASU became the only non-local university member of the Alliance for SoCal Innovation.

# Startups Launched in 2018

## **Vantronics, LLC**

Vanishing electronics for biological monitoring and treatment

## **Obeo Wellbeing, LLC**

Transforming mental health science into consumer-focused solutions to improve youth, family, and community wellbeing

## **Pricewise Analytics, LLC**

Algorithms that calculate optimal pricing for businesses that market complex product lines

## **NodRive, LLC**

Integrated device for automated detection of pathogenic E. coli

## **Nanobot Biosciences, Inc.**

Robotic drug delivery platform

## **Hoolest Performance Technologies**

Drug-free technologies that reduce performance anxiety treatment

## **Charlot Biosciences, Inc.**

Analytical instrumentation able to predict signatures of disease through the study of living cells

## **idLink.io, LLC**

Contact-free, biometric identity management and physiological data acquisition for health monitoring

## **CyNET, LLC**

Cybersecurity, network intrusion detection, and intelligent security in virtual network systems

## **Teuvonet Technologies, LLC**

Integrating machine learning and artificial intelligence with the Internet of Things

## **Precient Technologies, LLC**

Bioreactor membrane able to remove and harvest Platinum Group Metals (PGMs)

## **Mastrik, LLC**

Portable laser-based measurement system

## **Xtretch Technologies, LLC**

Stretchable battery technology for wearable electronics

## **GreyDyne, LLC**

Seizure detection and prediction

## **IDTX, LLC**

Diagnostic devices embedded with biomolecular computing, initially targeted to combat the Zika virus

## **Artis Looking Glass, LLC**

Proprietary machine learning and artificial intelligence for online and social media sources

## **Indie Financials, LLC**

Financial modeling tool for independent filmmakers

## Key Performance Metrics

**FY18**

**Since 2003**

Startups .....	17	126
Technology Licenses and Options .....	78	970
Patents .....	123	619
Invention Disclosures .....	285	3,118



# FY18 Startup Milestones

Advent Diamond was awarded an NSF SBIR grant for \$225,000 to conduct work on advancing single-crystal diamond diodes capable of operating at high temperature and power.

CYR3CON signed a contract with a Fortune 500 company to provide automated capture and analysis of deep and dark web data that predicts cybersecurity threats and vulnerabilities.

Gemneo Bioscience, ASU's 100th spinout company, received a Flinn Foundation Entrepreneurship Award.

Stephen Albert Johnston, who founded Calviri to create cancer vaccines, received a \$6.4 million grant from the Open Philanthropy to support the largest-ever interventional canine clinical trial.

Aural Analytics, which develops objective measures of clinical change that track with neurological health, won a prestigious Scrip Award for Best Technological Development in Clinical Trials.

## From AzTE to Skysong Innovations

***This year, AzTE rebranded as Skysong Innovations.*** The scope of technology transfer at ASU has changed immensely over the last decade, encompassing a huge range of new activities to support inventors beyond patents and licensing. The new brand captures that broader mission of faculty support, venture development, and entrepreneurial connections.

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