

BOARD OF TRUSTEES

COMMERCIALIZATION & ECONOMIC

DEVELOPMENT COMMITTEE

SEPTEMBER 21, 2016, 2:30PM

ALUMNI HALL II,

GEORGE WATTS HILL ALUMNI CENTER

OPEN SESSION

FOR INFORMATION ONLY

(No formal action is requested at this time)

- 1. Chair's Remarks

 Julia Grumbles, UNC Board of Trustees
- 2. Update on Roadmap 1.0 and 2.0

Judith Cone, Vice Chancellor for Innovation, Entrepreneurship, & Economic Development

3. Startups Aligned to the Pan-University Theme: Food for All

(Attachment A)

- <u>University Support for Socially-Oriented Student/Faculty Ventures</u>
 Richard Harrill, Director, Campus Y
 Laura Fieselman, UNC Social Innovation Initiative Coordinator
- <u>Campus Y Co-Presidents</u>
 Lauren Eaves, UNC Class of 2016
 Reagan Buchanan, UNC Class of 2016
- Seal the Seasons

Patrick Mateer, CEO & Founder, UNC Class of 2015

Meantime Café

Scott Diekema, UNC Class of 2018 Keegan McBride, UNC Class of 2017

COMMITTEE MEMBERS

Julia Sprunt Grumbles, Chair Jefferson W. Brown, Vice Chair W. Lowry Caudill Haywood D. Cochrane, Jr. Donald Williams Curtis Hari H. Nath

Administrative Liaison:

Judith Cone, Vice Chancellor for Innovation, Entrepreneurship, & Economic Development 1/48



PUTTING IMPORTANT IDEAS TO USE FOR THE PUBLIC GOOD

UNC Board of Trustees
Committee on Commercialization and
Economic Development

Judith Cone, Vice Chancellor

Innovation, Entrepreneurship & Economic Development 2/48

September 21, 2016



Putting Important Ideas to use for the public good

VISION

With a special focus on urgent challenges, innovations and innovators launched at Carolina consistently apply important ideas for a better word.

MISSION

Be a place where innovators thrive.

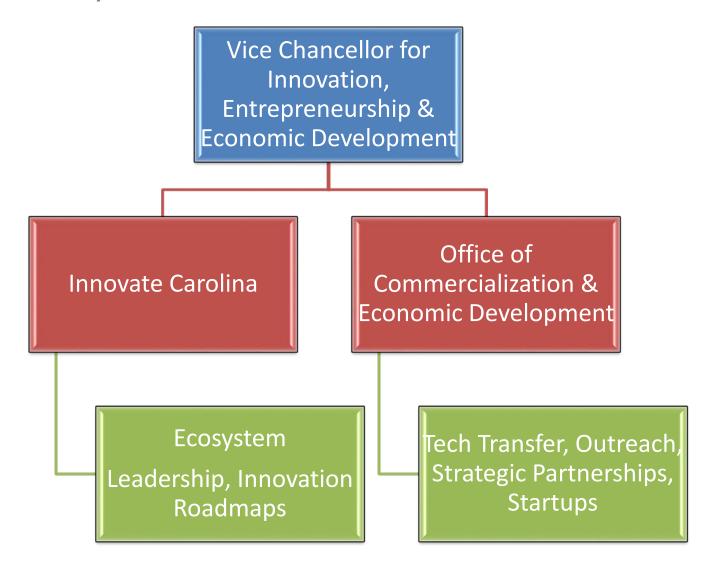
Universities' To-Do List

Committed to helping solve the state's and world's pressing challenges

- Improve health by preventing diseases, inventing better medicines and devices, curing diseases, and getting those cures to all the people who need them.
- Find, invent, gain adoption of clean energy solutions.
- Feed seven billion people.
- Inspire and prepare students in our schools.
- Promote widespread prosperity.
- Describe the world, and replace conflict with understanding.
- Inspire through art, rhtsic, and writing.



We are here to deliver social and economic benefit to North Carolina, the world and to the university.





INNOVATION & ENTREPRENEURSHIP AT UNC

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m UNC-Chapel Hill Climbs in Ranking of Top 100 Universities Granted Utility Patents >



IN THE NEWS

■ VIEW ALL

SPECIAL FOCUS



CAROLINA CREATE-A-**THON VIDEO 2016**

Watch scenes from the 2016 Carolina Create-athon

MORE INFORMATION >

Hopscotch Design Festival

CED Tech Venture

Conference

CityCamp NC 2016 22

Triangle Tech Breakfast

http://oced.unc.edu

OFFICE OF COMMERCIALIZATION AND ECONOMIC DEVELOPMENT

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SANDBAR OYSTER COMPANY

UNC startup has developed a substrate for oyster seeding and growth that promotes oyster propagation and shoreline protection

Read more





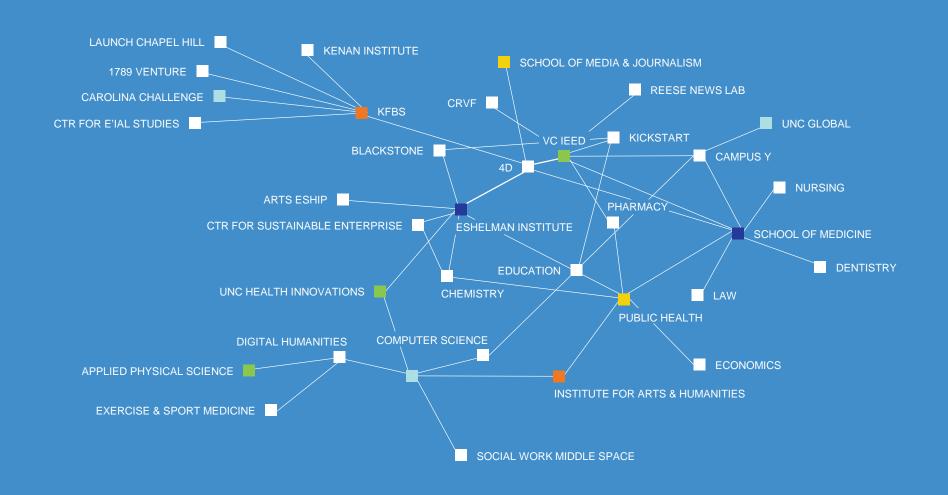


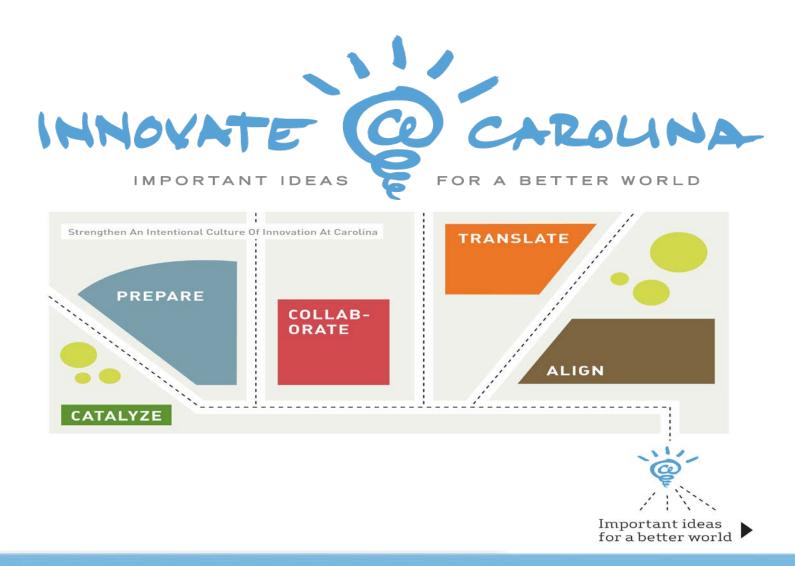
Available Technologies





INNOVATE INTERCONNECTED









Build the Foundational Elements

Support and integrate translational areas of study and tools.

- 1. Areas of study applied physical sciences, biomedical engineering, environmental engineering, data studies, computer science, law, marketing, business).
- 2.Tools app development, serious games, BeAM--be a maker















Promote Diverse Teams That Cross Boundaries

Inspire and encourage co-creation of solutions through collaboration across disciplines with teams that are diverse in background, experience and expertise.















Teach the Skills

Elevate UNC-Chapel Hill as a model for formal and informal teaching of the entrepreneurial mindset and skillset necessary in the 21st century innovation economy.















Translate Ideas into Impact

Effectively guide people as they seek the maximum social and/or economic value of important ideas.















Strengthen the Global and Local Innovation Network

Activate an extended network of alumni, friends, and experts as collaborators in creating solutions and moving them forward.















Provide Appropriate Spaces

Expand current innovation spaces and create new ones on or adjacent to UNC-Chapel Hill's campus.















Fund High-Potential Ideas & the Ecosystem

Secure funding for all stages of translating important ideas into practical value for society. Fund the work of the Innovate Carolina Network.











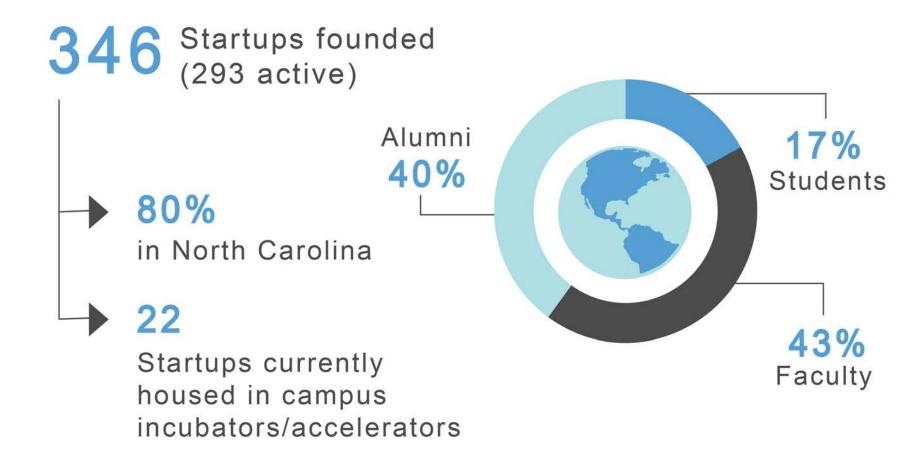




Communicate the Impact

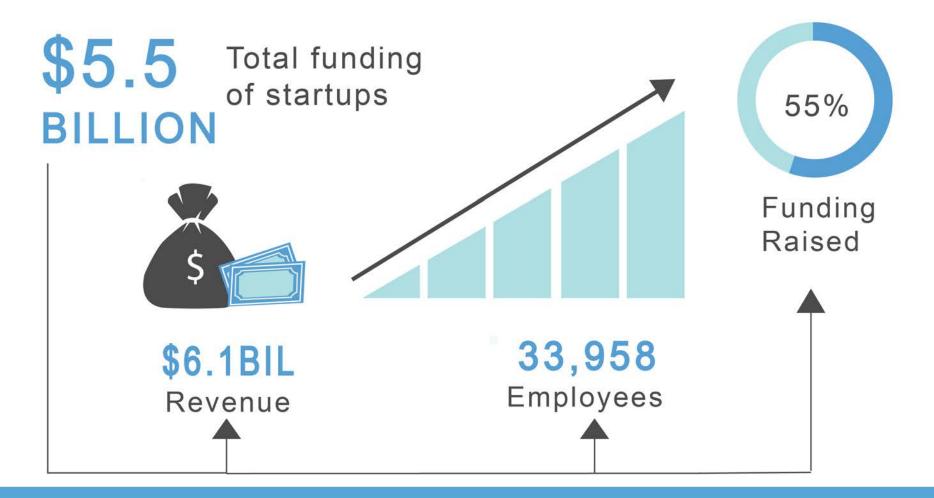
Integrate Innovate Carolina into all UNC-Chapel Hill communication strategies to more effectively share the collective story.

INNOVATION





ECONOMIC DEVELOPMENT





UNC-CHAPEL HILL STARTUP STATS 20 JANUARY 2016

Cumulative-to-Date Stats

Total firms: 346 startups with 293 active (of those 293 active firms, 232 are headquartered in North

Carolina)

Total funding (VC, PE, SBIR, STTR, etc.): \$ 5,519,575,105

Snapshot 2014*

Annual Sales/Revenues of UNC Startups: \$6,156,180,426

Employees of UNC Startups: 39,958 total, with 6,943 in North Carolina

Notes

* includes 3 large firms: Quintiles, RTI, and FHI 360

Annual Sales/Revenues without these: \$616,593,114

Employees without these: 4,558 total, with 2,143 in North Carolina

RTI is a shared startup with NC State University and Duke University

UNC-Chapel Hill startups' economic impact from the UNC General Administration (GA) 2015 report on the

UNC System's Economic Impact, from Economic Modeling Specialists International (EMSI)

Estimated 8,000 jobs created in North Carolina and 35,000 worldwide

Estimated \$1.6B impact on the state's economy overall

Details at http://uncnews.unc.edu/2015/02/18/analysis-finds-unc-chapel-hill-unc-health-care-

medical-center-contribute-7-billion-north-carolina-economy/ and

http://www.northcarolina.edu/economic-impact-2015



Tech Transfer Stats

Stats

Facts and Figures

2015 Figures* ▶	136	73	181	9	
	INVENTIONS DISCLOSED	LICENSE AGREEMENTS	PATENT APPLICATIONS	STARTUPS LAUNCHED	
Cumulative* ▼			Economic Impact ▼		
658	\$53M	106	\$3.3B	\$243M	
PATENTS ISSUED	LICENSING REVENUE	STARTUPS LAUNCHED*	INVESTED IN UNC STARTUPS*	ANNUAL REVENUE OF UNC STARTUPS	

^{*}Arising from UNC-licensed technologies as reported to the Association of University Technology Managers (AUTM)

*Only IP-based startups



Tech Transfer Stats - Comparison

Description	Cumulative	5-yr Ave FY06-10	5-yr Ave FY11-15
Disclosures	2566	118.8	146.4
New Patent Applications	1304	63.8	74.8
US Patent Applications	2357	113.2	155.4
Issued US Patents	658	24.2	34.6
Licenses (Total)	1130	58.4	50.4
Startups	106	3.2	9.8
Startups – Express License	34	3	6.2
Licensing Income (\$MM)	\$53.10	\$2.58	\$3.66





INVEST





Provide Spaces on Campus and in the Town







MedUcate- an app that will teach both Cystic Fibrosis patients and their caregivers about the complicated medication regimen of CF patients and how to deal with side effects.

ChitoSan- a potentially disruptive water treatment technology for widespread use, but especially in low resource settings.

MedServe- a 1:1 partnership between "high primary care potential" premedical recent college graduates and a rock-star primary care physician.



Monikos - an app that will empower healthcare students and professionals by giving them a fun and educational way to learn/remember different drugs that are used on a daily basis.

we are (Working to Extend Anti Racist Education) - a program that will equip students, parents, and educators with the knowledge and skills necessary to understand the complexity of racism and to extend antiracist education with the ultimate goal of dismantling systemic racism.

Steps Program- a 10-week, cognitive-behavioral, school-based, group intervention for Black males (grades 9-12) with a history of physical or verbal aggression.



GreenChar Solutions – a venture that provides households with an affordable and safer alternative for their cooking fuel.

Solar Head of State (SHoS) – a nonprofit that supports solar panel projects and pledged energy goals by installing solar on influential government buildings



Global Music Outreach (GloMo)- a music program at Good Hope School and Orphanage in Arusha, Tanzania that also provides scholarships to students through the sale of CDS.



So Good Pupusas- an alternative food truck that strives to provide an authentic eating experience and directs profits towards supporting education equity.

The Sonder Market- a student-run business that brings local produce and value-added healthy foods to UNC students.

The Meantime- a student-owned and operated coffee shop serving ethically sourced coffee and local products.

GreenBus- a mobile food market that aims to fight the ongoing food insecurity problem in the eleven food deserts in East Durham by providing fresh, affordable produce.



Build the Hill- a venture that seeks to empower individual business owners by increasing their access to capital and building their credit scores, while also growing the local economy by enabling grassroots business growth and strengthening community links to university resources.







157 years of student-led service, activism and advocacy









Helping Youth By Providing Enrichment









Criminal Justice Awareness and Action





Mission:

To make all North Carolina fruits and vegetables available to all North Carolinians all year round.

Value Proposition:

We partner with small local farmers to freeze, market, and distribute locally grown fruits and vegetables.

Patrick Mateer, CEO Seal the Seasons September 2016



The Problem





Farmers:

- 1. No commercial freezing exists in NC.
- 2. Farmers can only serve in-season markets.
- 3. Farmers have to farm AND market/sell.

Consumers:

Love local and Can't supporting small their confarmers, can only needs. do so in-season. Supporting supporting small their confarmers, can only needs. Supporting supporting small their confarmers, can only needs. Supporting supporting small their confarmers, can only needs. Supporting supporting small their confarmers in the supporting supporting small their confarmers. Supporting supporting small their confarmers in the supporting small the supporting supporting supporting small the supporting supporting supporting small the supporting support

Chain Stores:

Can't serve their consumers needs. Can't support local farms.



Challenges













Seasonal Manufacturing Business The STS System



Small farm partnerships

Buy local produce Freeze and store

Sell local year round



Contract + Internal Manufacturing



Integrated with mainstream supply chain

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High movement, non-differentiated category



Collaboration creates success





PIEDMONT FOOD & AG PROCESSING CENTER HILLSBOROUGH, NORTH CAROLINA





PRIZE for INNOVATION



CUBE Social Innovation









Market Validation

Sales match or exceed national competitors from day 1

Products capture >40% of nonorganic market share

Frozen blueberries are highest movement item in frozen

38/48

















Frozen Fruits and Vegetables

Local Produce

\$13B

\$6B

19% Growth



Customer Rollout







2015 Q35 Stores

2016 Q2 120 Stores 2016 Q3 323 Stores committed

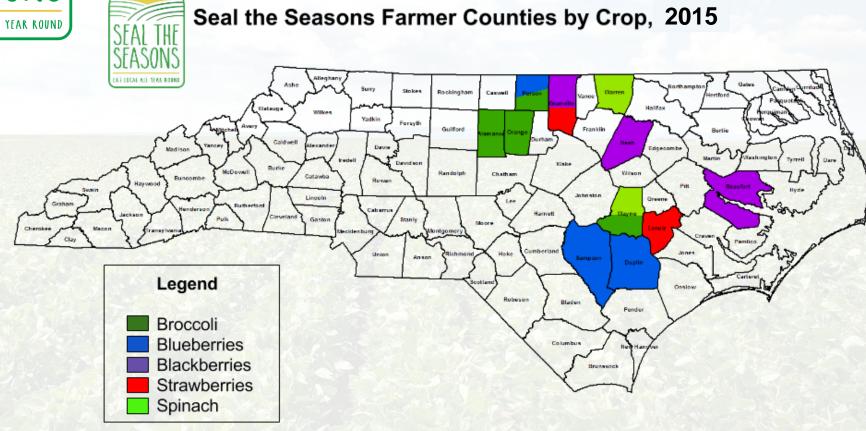






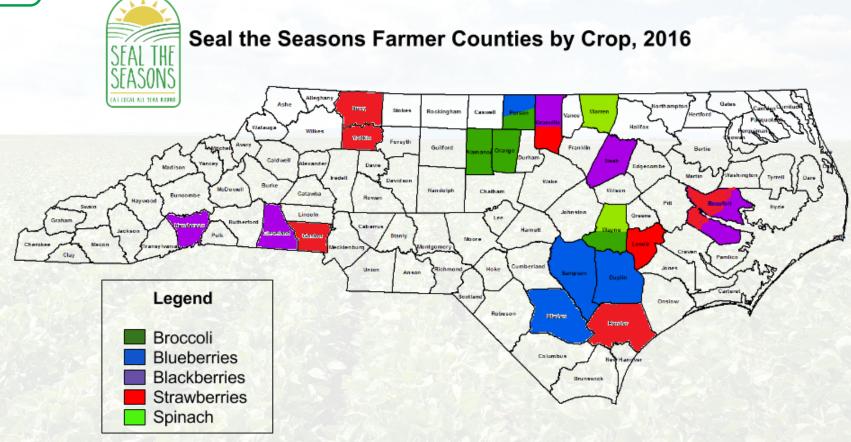


Sourcing





Sourcing





Economic Job Impact

Job Creation:

- 1 Founder Salaried Chief Executive Officer
- 5 Managers Salaried full time office and operations staff
- 2 Supervisors hourly full time production staff
- 7 Associates hourly part time production staff
- 2 Interns hourly part time office staff
- 17 new North Carolina jobs

Professional Services:

Attorney:

Smith Anderson

CPA:

Blackman & Sloop

Incubator:

Launch Chapel Hill



NC Farm Impact

		38
Wo	FIAD	

2015

5 acres

50 acres

200 acres

10X

40X

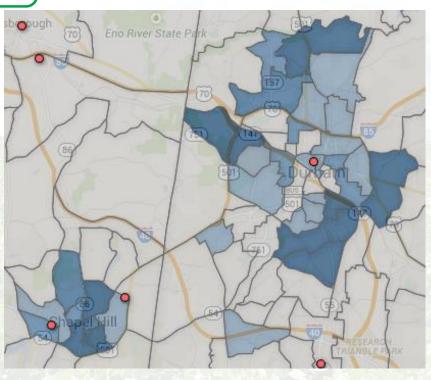
Food Access

ood Access Funding: 2016 2017

\$ \$\$\$



Social Impact: 20% Pledge



- Purchasing Barriers
 - High cost
 - Lack of transportation
- Potential Solutions
 - Corner stores
 - Mobile grocers
 - CSA







FARMER FOODSHARE

Seal the Seasons









Eat local all year round!

Patrick Mateer, CEO
patrick@sealtheseasons.com
94-9-360-7618

Mentine 5 COFFEE CO.

The only student-run, non-profit coffee shop at UNC Chapel Hill

Scott Diekema and Keegan McBride

meantimecoffee.com

Bringing Carolina together with great coffee.

IMPACT



Professional Development



Reinvested Profits



Sustainable Food Hub

FEASIBILITY



Precedent



Institutional Support



Market Demand

