

Presented by MATEC NetWorks

The webinar will begin at 1pm Eastern Time.

In the meantime you may wish to perform an Audio Check.

Go to Tools → Audio → Audio Setup Wizard.





Importance of Arts In STEM

Presented by MATEC NetWorks





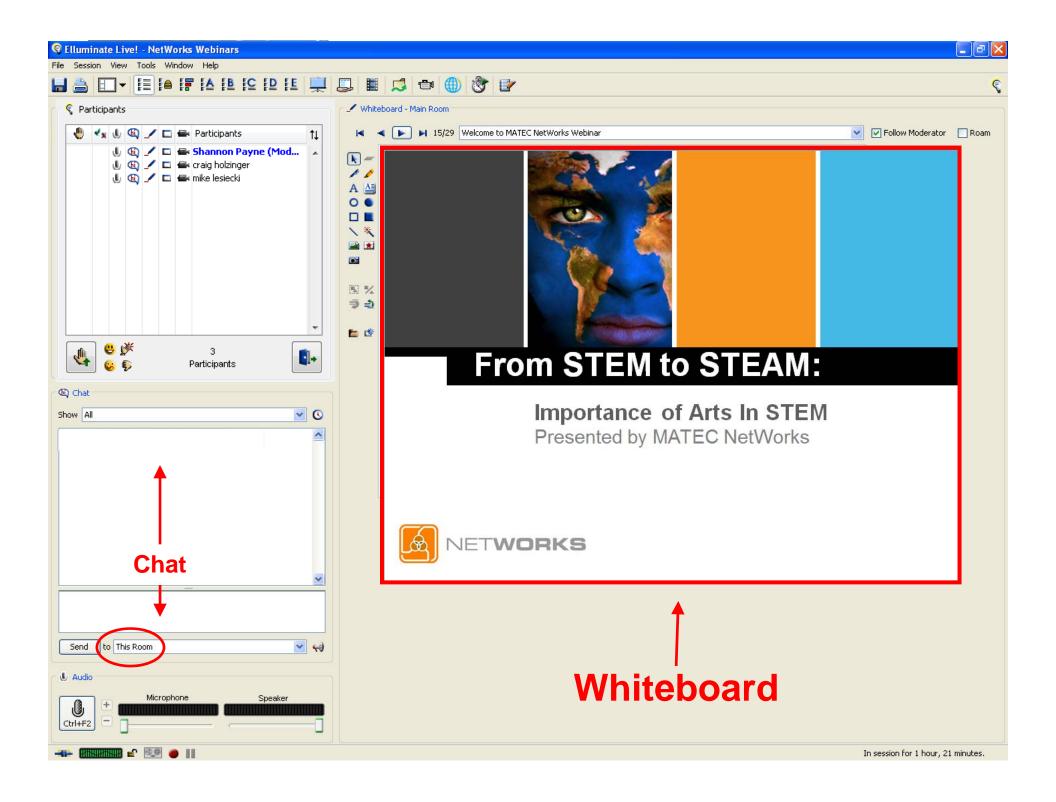


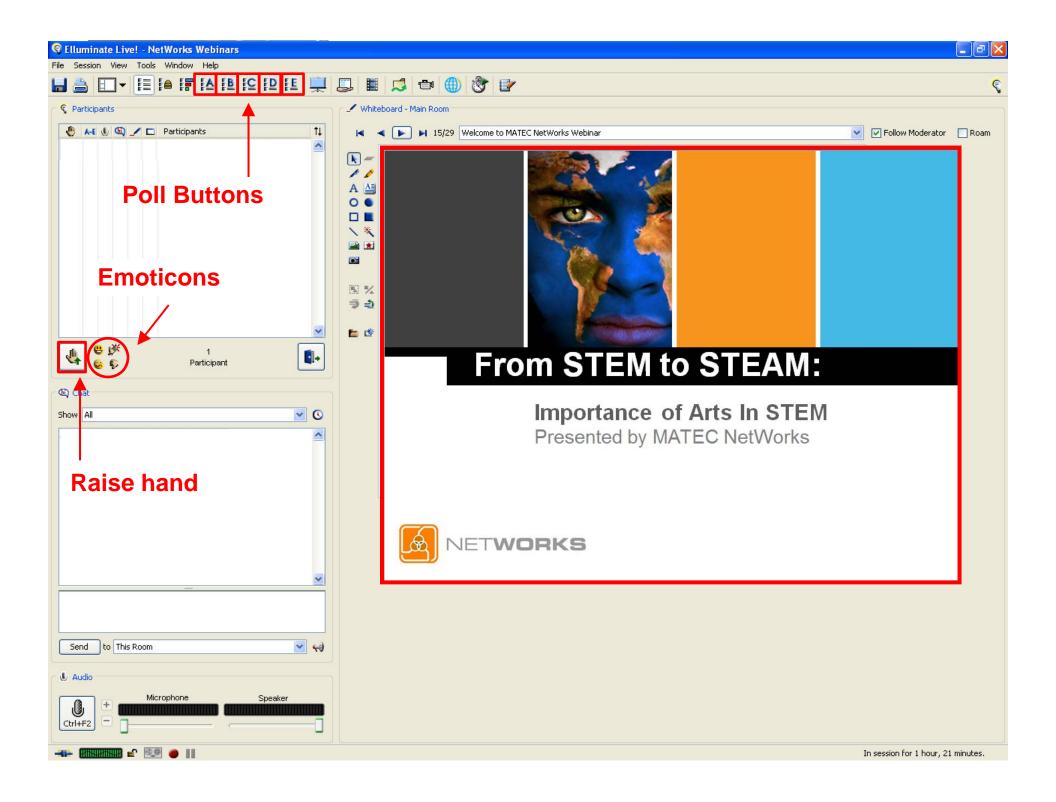


NetWorks is part of MATEC, a member of Workforce Development, at the Maricopa Community Colleges, and funded in part by the National Science Foundation



Funded, in part, by a grant from the National Science Foundation. Due 1104159







Who

Please select the category that best describes your day job or reason for participation today.

- A. Academic Teacher
- B. CTE Teacher
- C. University Teacher
- D. Education Administrator
- E. Other



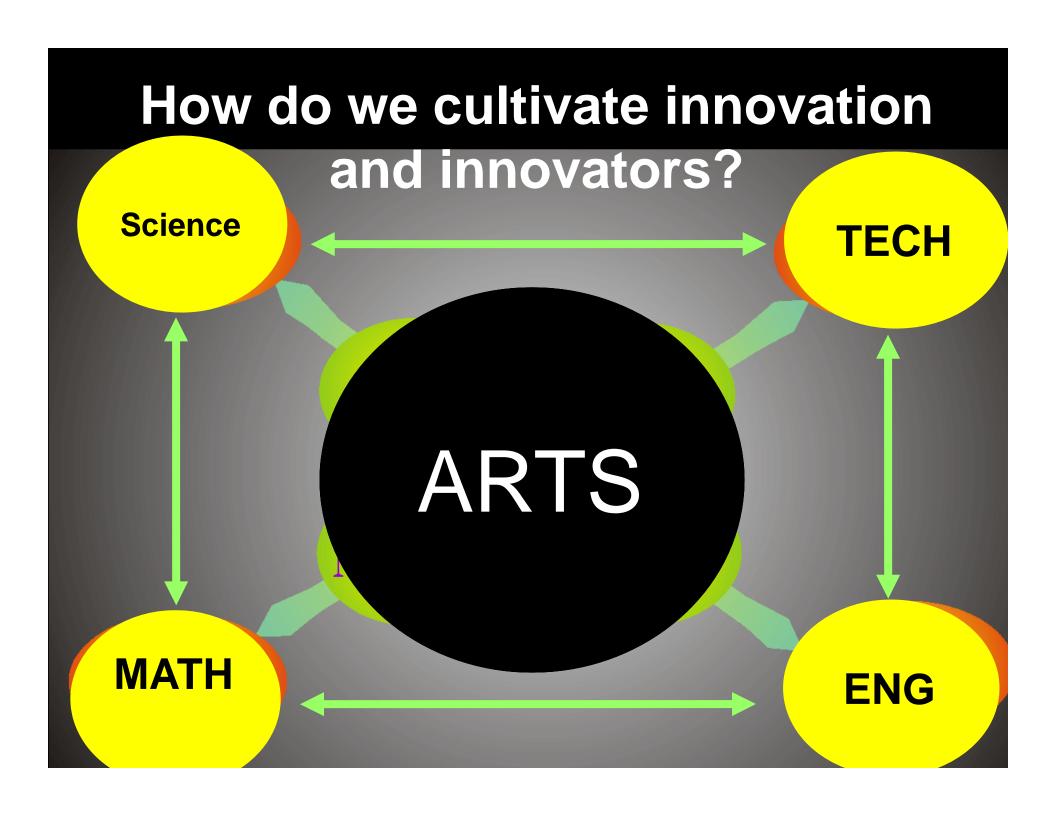
What

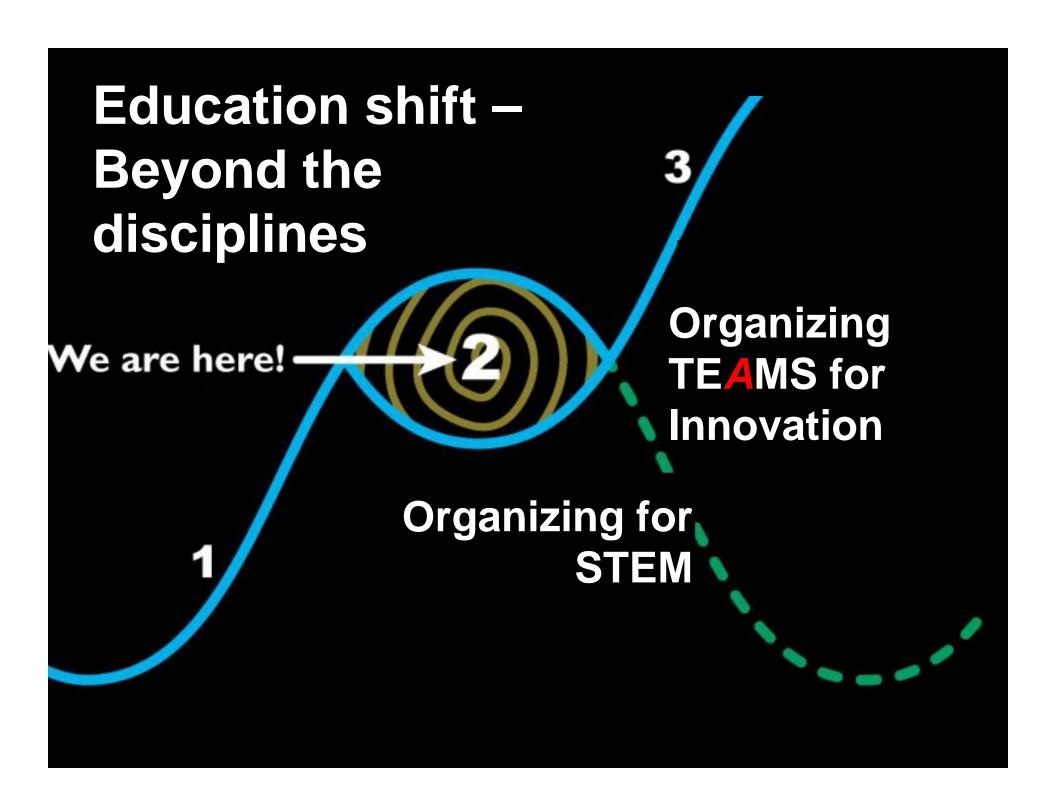
Please select the most important take-away for you today.

- A. Discover free resources for my school and community
- B. Define what arts integration is and how to do it in STEM subjects
- C. Experience case studies of STEM+ARTS
- D. Clarify the overall philosophy and pedagogy of the arts way of learning in the STEM context
- E. Get exposure to new ideas I can use in my teaching

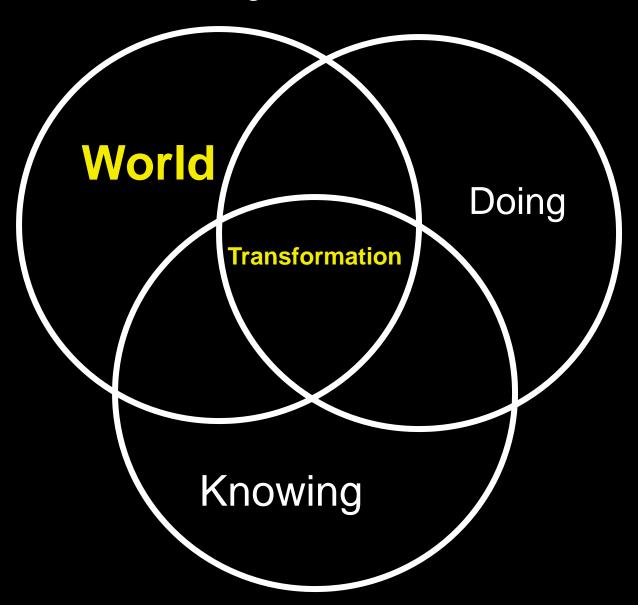








Techne', Art or Craft, Our purpose is to create. To give meaning to transformation.







Keystrokes on canvas Mixed paints in a petri dish And murals of math

Authors, Pre-Kindergarten-to-12th Grade
Academic, Arts and CTE Teachers, Schools and
Classrooms for Tomorrow: Instructional Leadership
in the 21st Century, The David O. McKay School of
Education and The Brigham Young University, Salt
Lake City, Utah, March 9-11, 2011



Haiku - Abilene TX

(5) All the venues merge(7) Technology – arts – science and(5) Our future opens



Create new stuff now get a good group together make it really cool



Intelligence dies when interaction is lost the future is gone



Experimental trial and error, follow me where is the answer?

Erector Structural Steel Builder

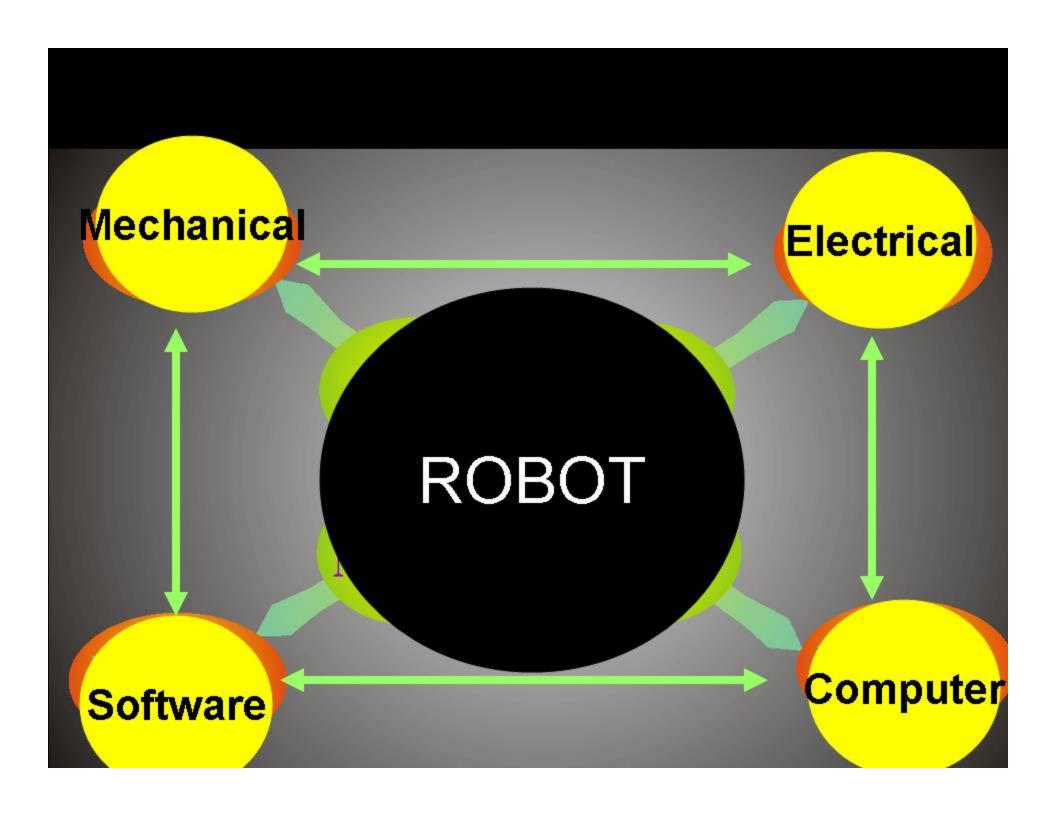


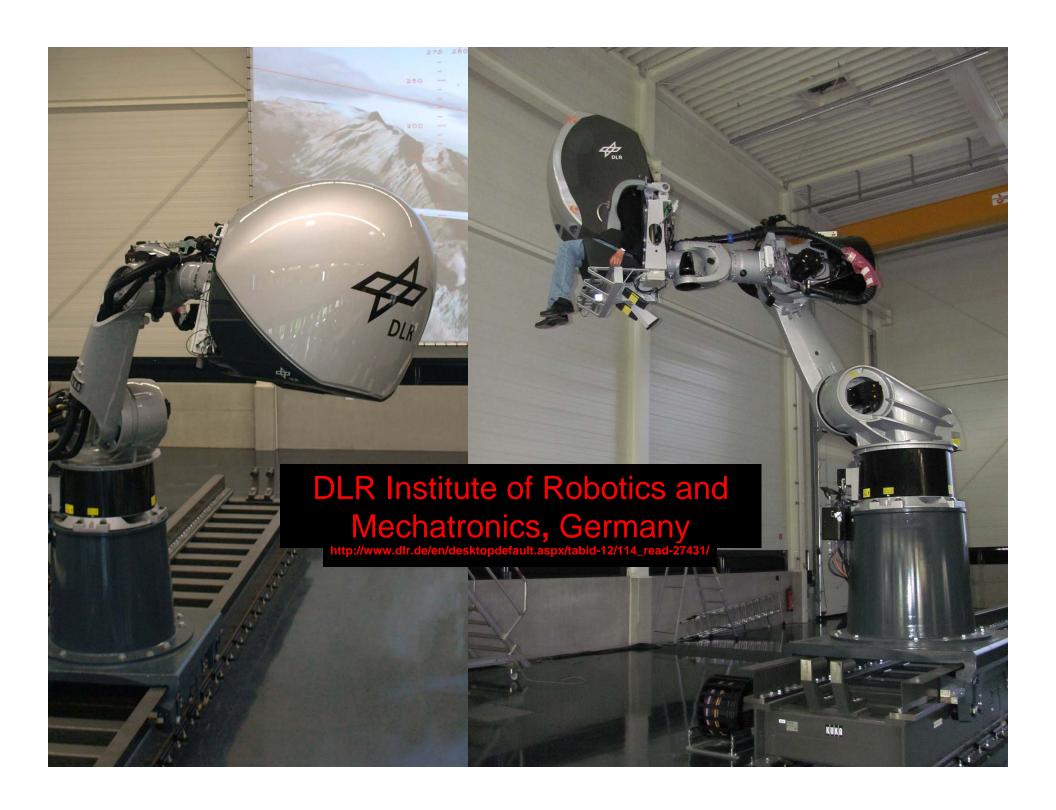
Erector Science Career Kits





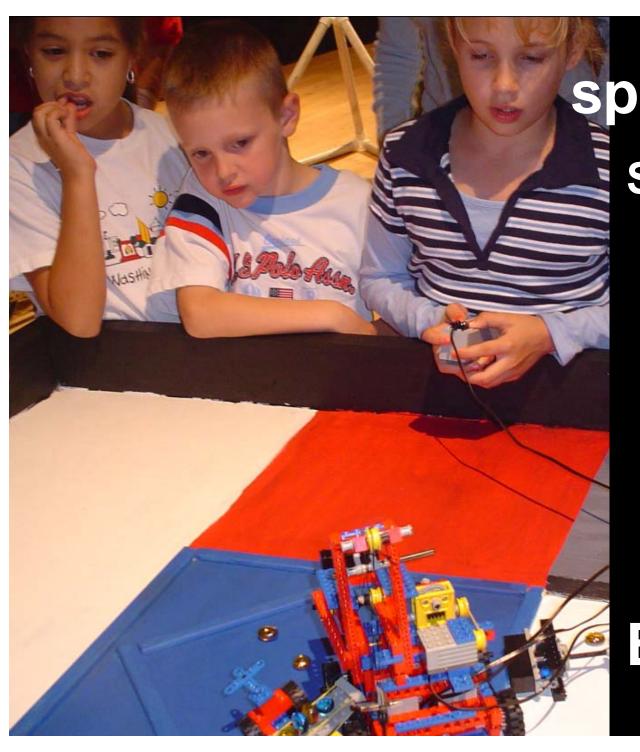








Harry Potter & the Forbidden Journey

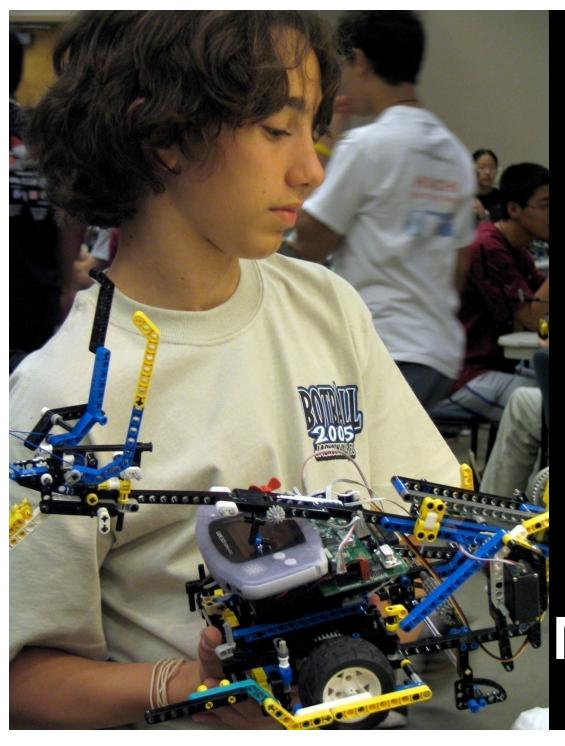


spaceTEAMS

San Antonio,TX

Robot competition plus career and academic exploration.

Elementary



spaceTEAMS

San Antonio,TX

Robot competition plus career and academic exploration.

Middle School



Origo may be the last toy you ever have to buy for your child. The prototype 3D printer under development by Artur Tchoukanov and Joris Peels allows children aged ten and up to design figurines and shapes on a computer, and then print them out to play with. Instead of buying your children more toys, let them make their own.

Cost: \$800.00





Self determined child iPhone in hand all day long Educators scream

Authors, High School CTE Teachers and Community College Faculty, Roane State Community College Faculty Convocation and Regional Tech Prep Consortia Workshop, Roane, TN, August 24-25, 2011



Reeling writhing fainting in coils



Haiku - Central Lakes MN

(5) Collaboration(7) Has not been greatly used and(5) It is time to start



Change instructors. Change student attitudes. Redefine the future.

Authors, 11th Grade to 14th Grade CTE/STEM Teachers and Administrators, Laramie Community College, Growing a New Generation (GANG) of Multi-Skill/Multi-Disciplinary Technicians for Wind Energy, Laramie, Wyoming, May 17-18, 2011

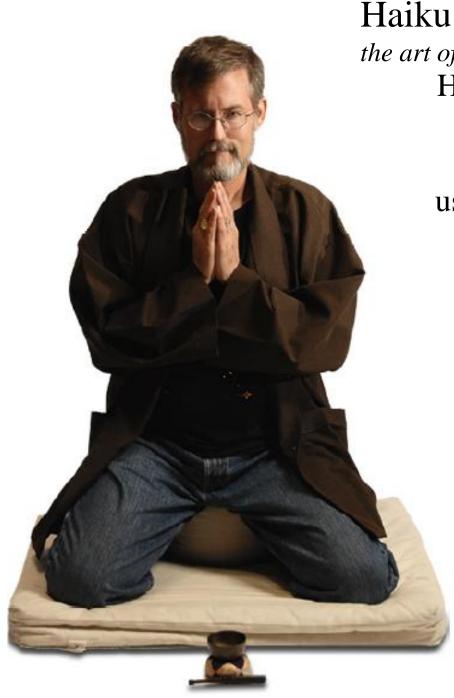


the art of it all

Haiku is a Japanese poem composed of three unrhymed lines of five, seven, and five syllables. Haiku usually emphasizes a season, intense emotion and vivid image designed to lead to an enlightened insight.

- (5) The moment two are
- (7) united they both vanish
 - (5) A lotus blooms here.

Murakami, Kijo. (1865-1938), Adapted by Brazell http://www.toyomasu.com/haiku/#time



Haiku (Syllables 5, 7, 5)

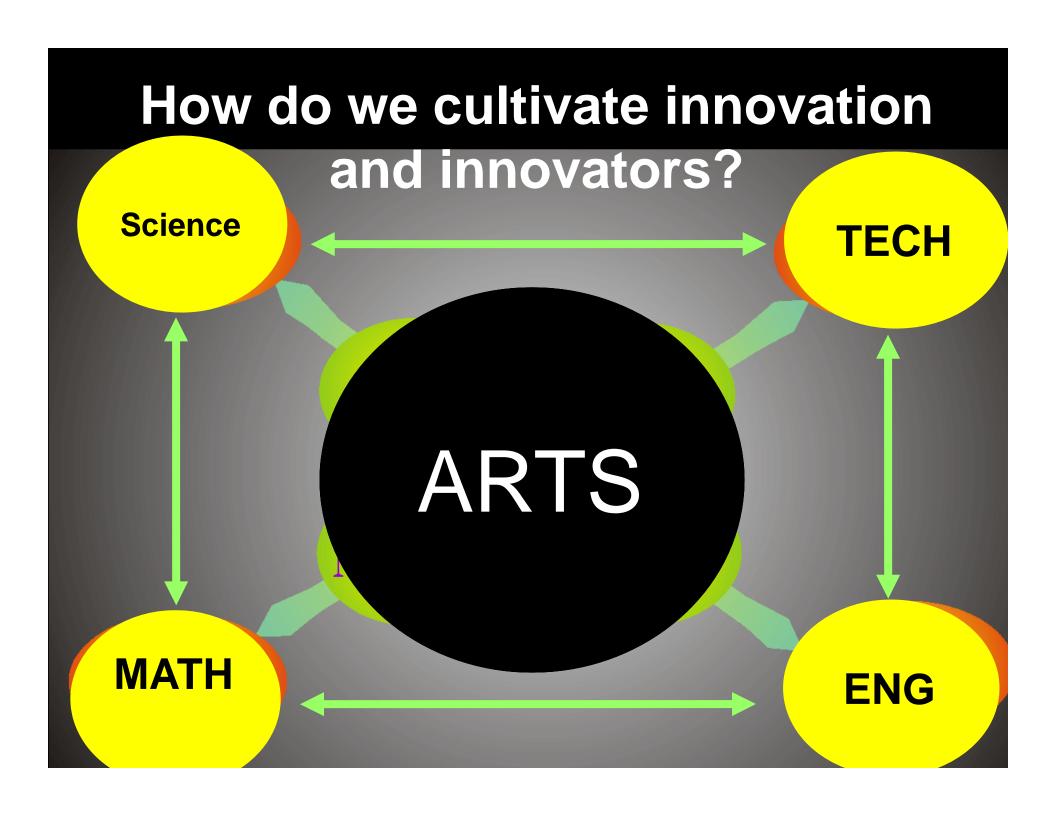
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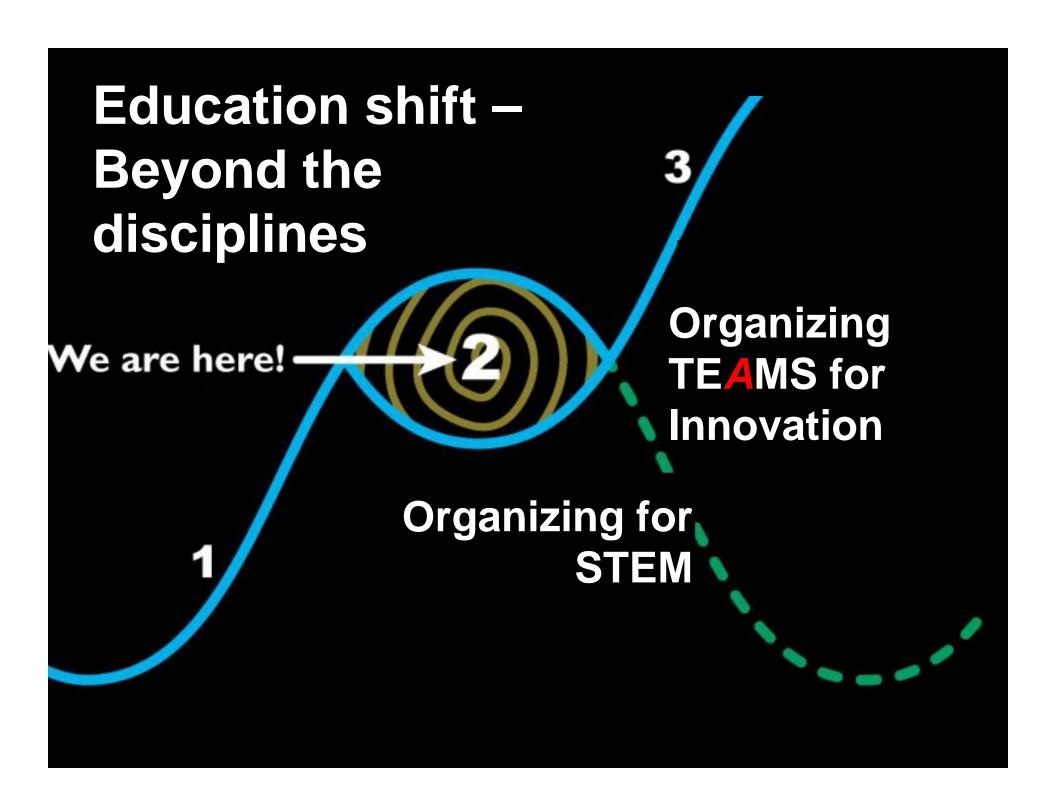
Murakami, Kijo. (1865-1938), Adapted by Brazell http://www.toyomasu.com/haiku/#time

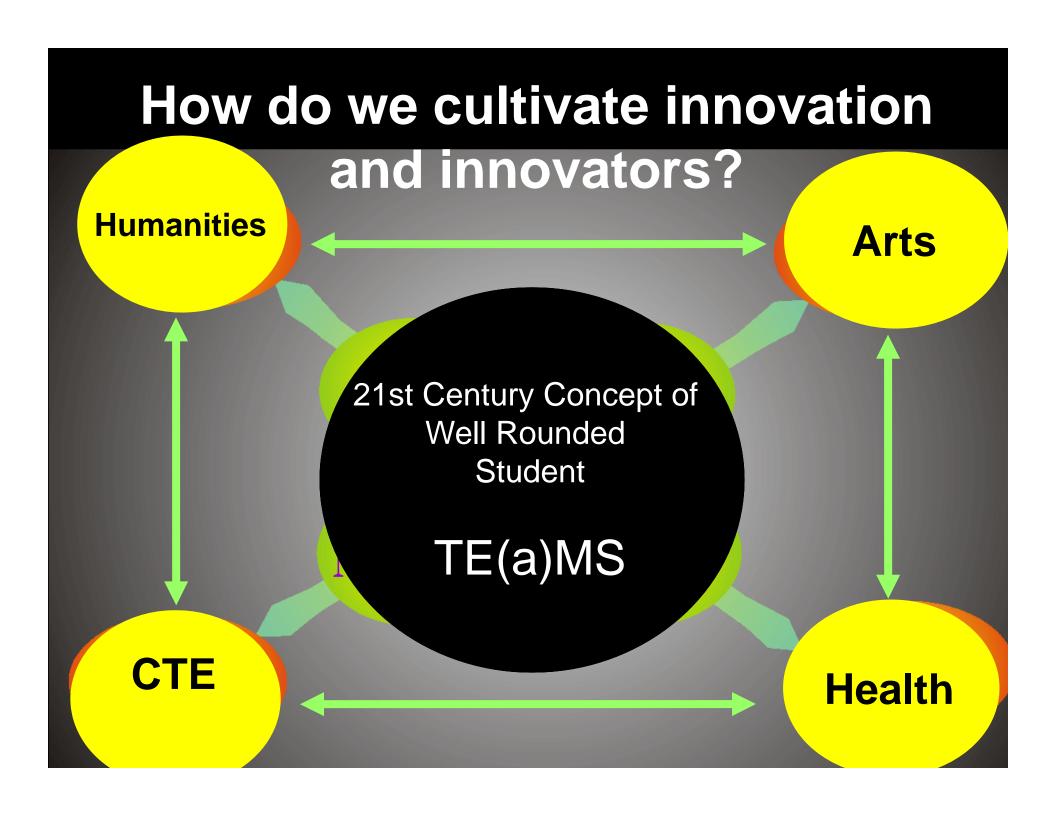
Bonus - Cinquain (Syllables 2, 4, 6, 8, 2)



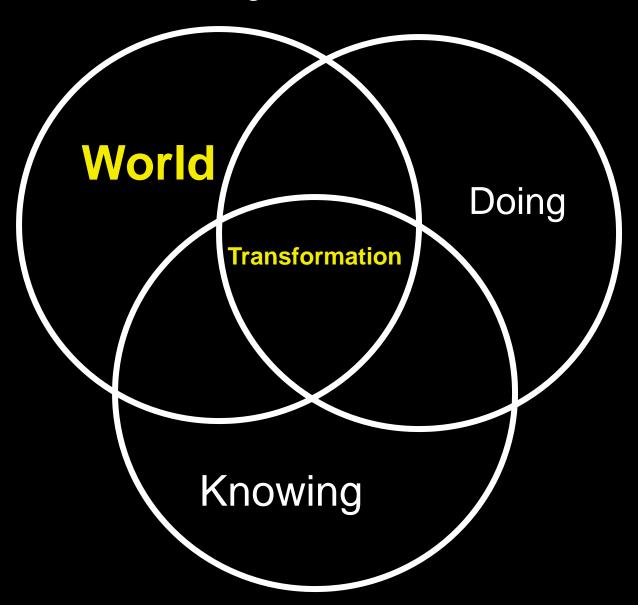
The word Cinquain is derived from the French word for five. An American poet named Adelaide Crapsey invented the Cinquain. She wrote a lot of poems with this format in the last years of her life. She died early, at the age of thirty-six. The Cinquain is a short, 5-line poetry form, with a distinct pattern (2, 4, 6, 8, 2).







Techne', Art or Craft, Our purpose is to create. To give meaning to transformation.





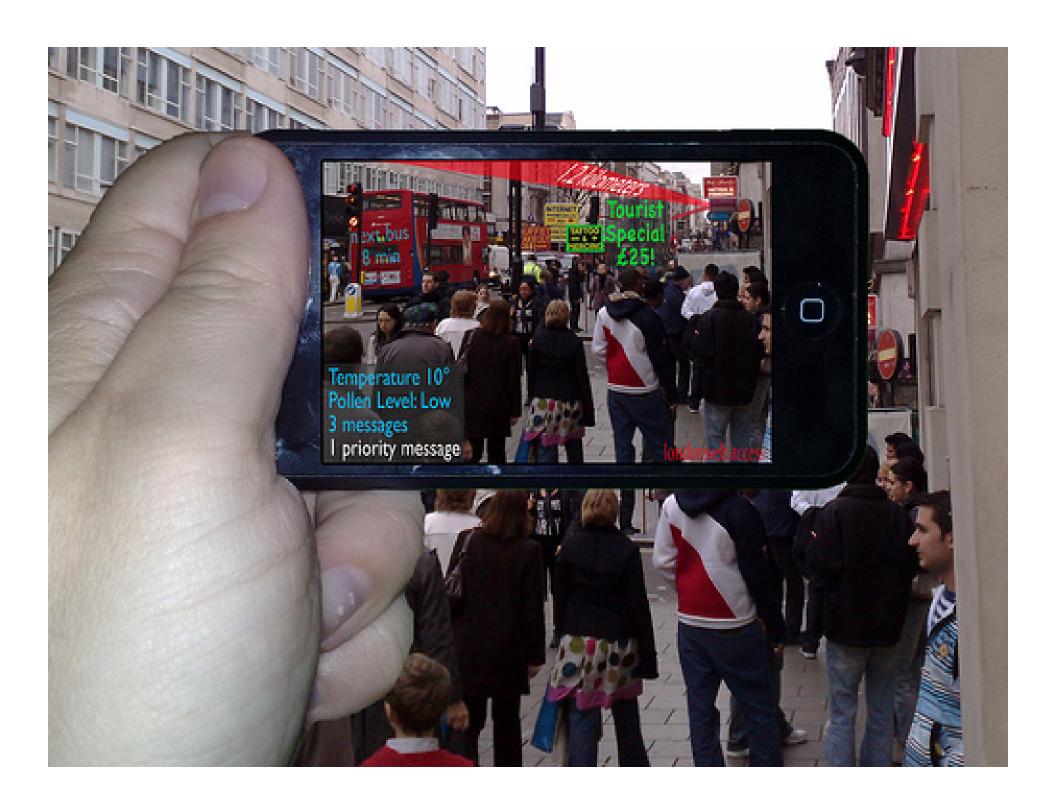


How many of you have a digital phone with a video camera in your pocket?

Nokia Research Center, Helsinki Finland in MIT Technology Review

http://geeklit.blogspot.com/2007_03_01_archive.html



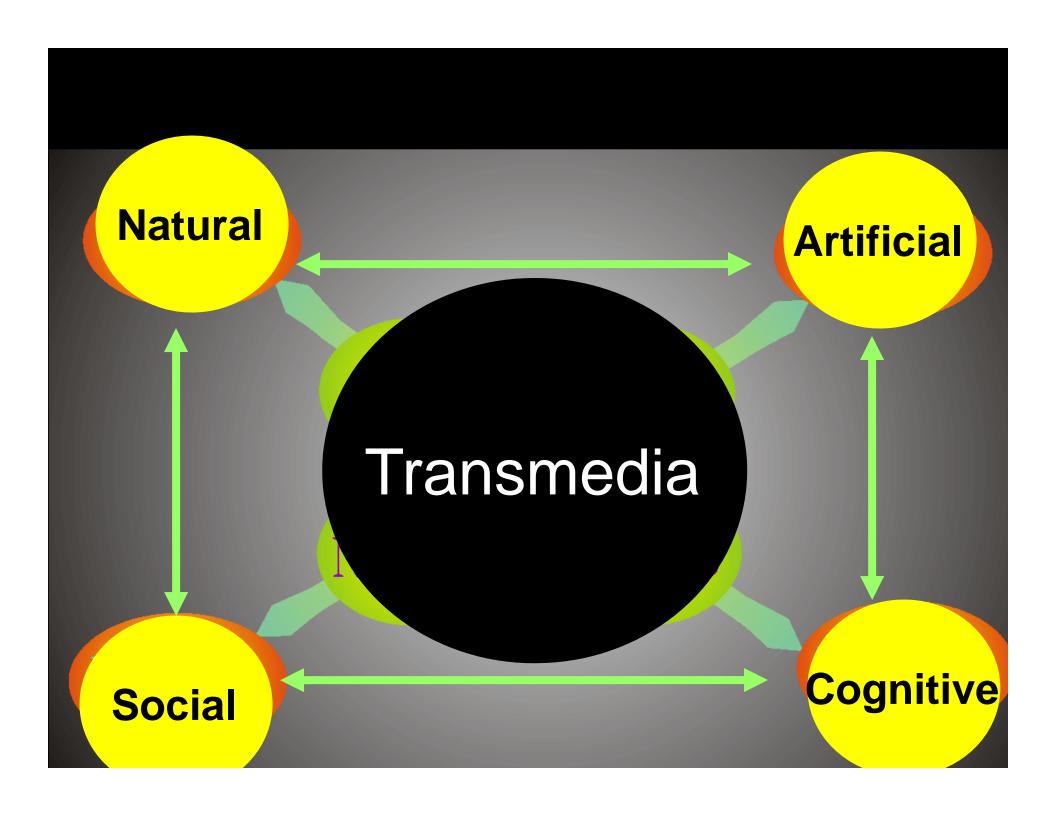




Mixed Reality



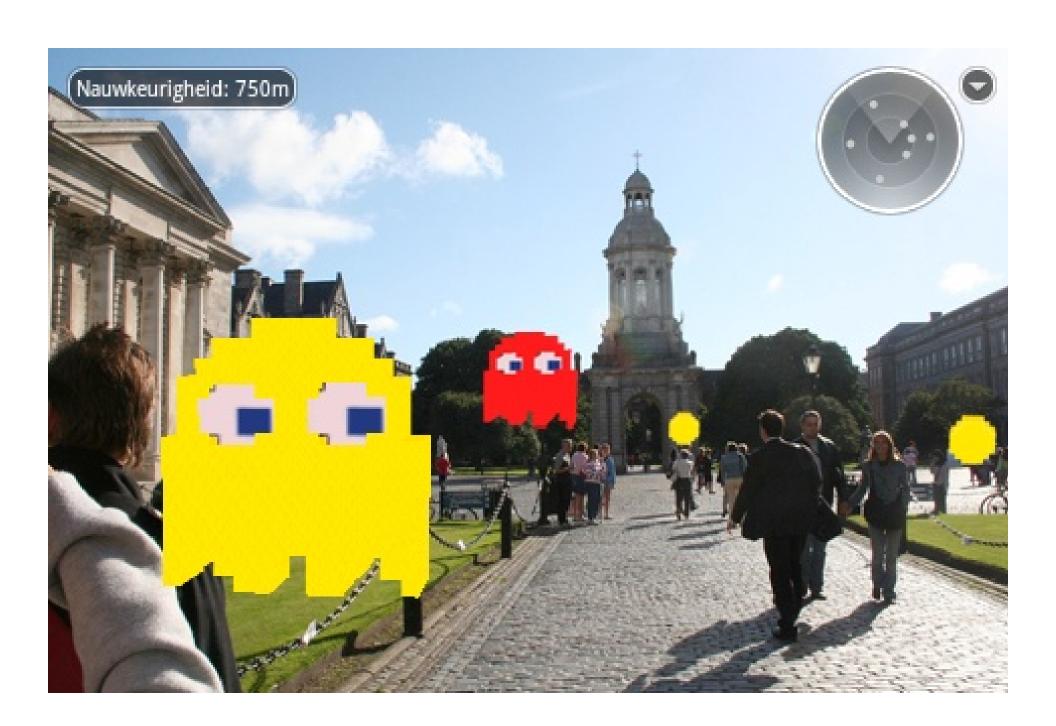
Babak Parviz at the University of Washington in Seattle created a prototype contact lens containing a single red LED. Using the same technology, he has now created a lens capable of monitoring glucose levels in people with diabetes.



Imagine the games we can

play...





A wide array of electrical components, including sensors, transistors, power supplies such as solar cells and wireless antennas, can be combined on a single device that is a wearable tattoo. UC San Diego



Star Wars TIE FIGHTER for I-Phone







TISSOT REALITY Experience the Touch collection in 3D on your own wrist

Experience the Tissof Collection on your own wrist. All you need to activate is a webcam and the T wristband (if you do not already have this you can print the PDF below).





PRINT WRISTBAND & READ INSTRUCTIONS









* Computer Requirements:



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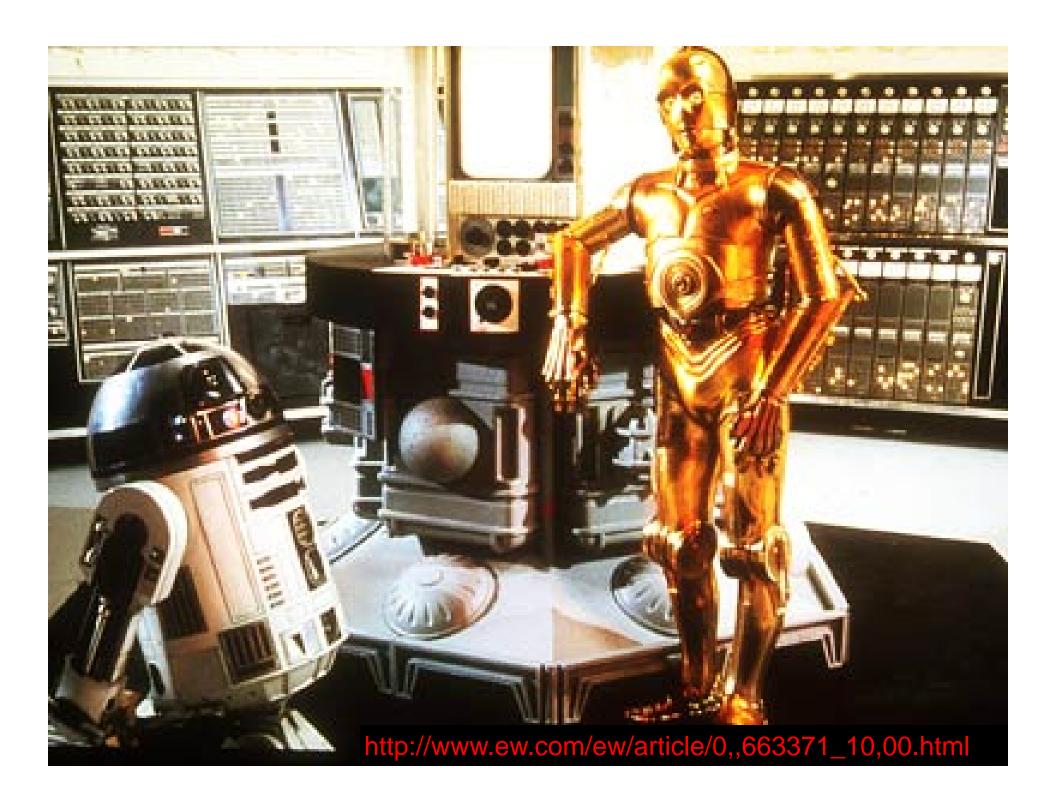




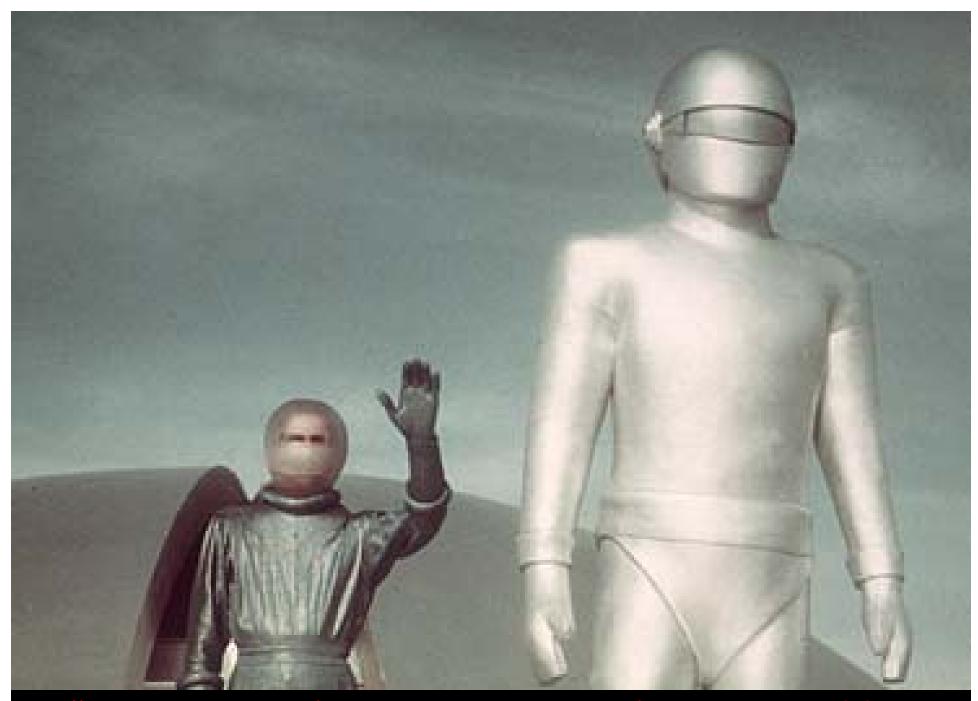




http://ilovesubstance.com/2007/transformers-movie-posters-optimus-prime-megatron/



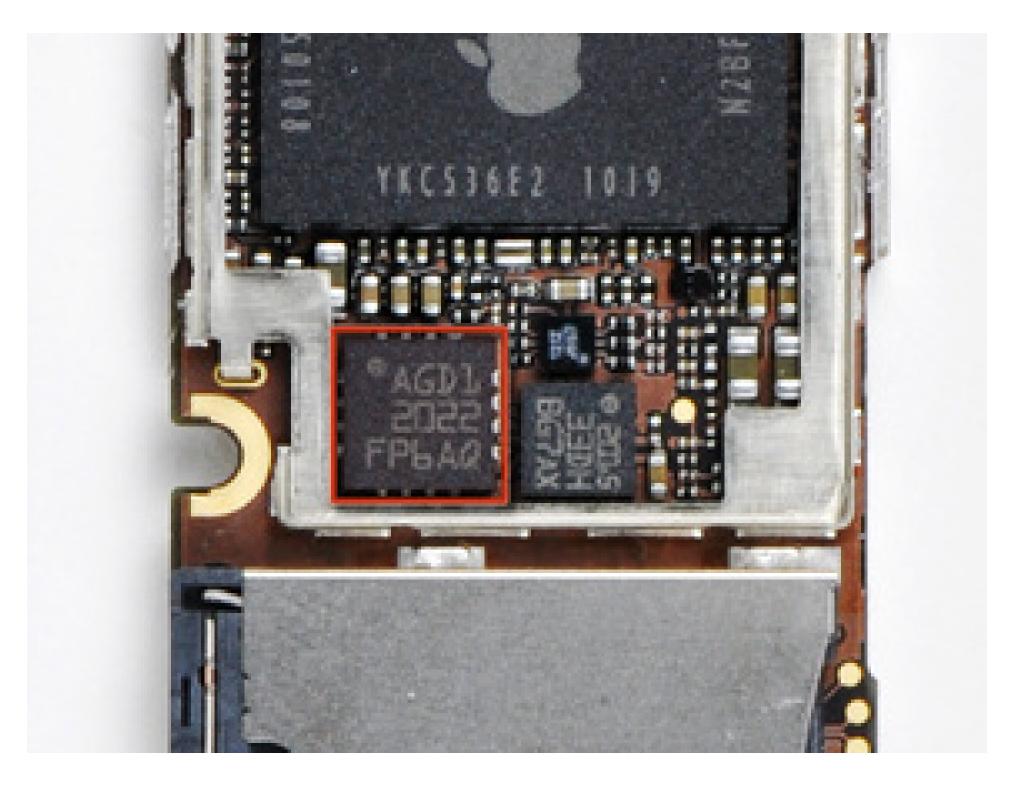


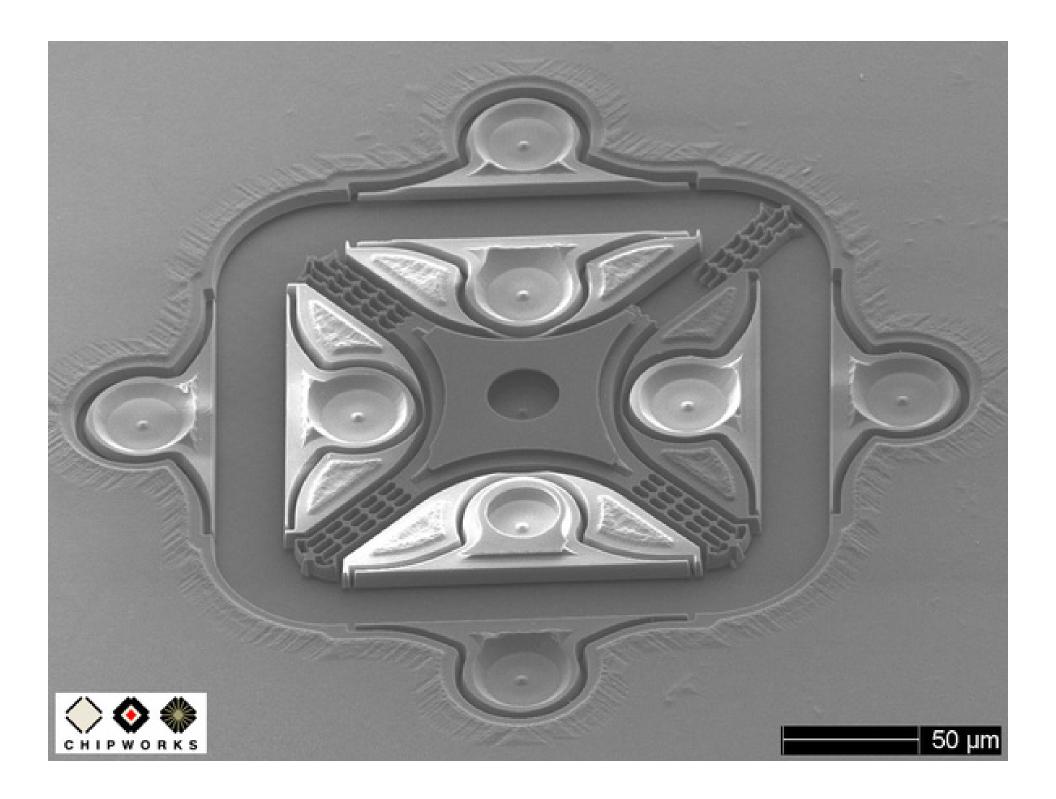


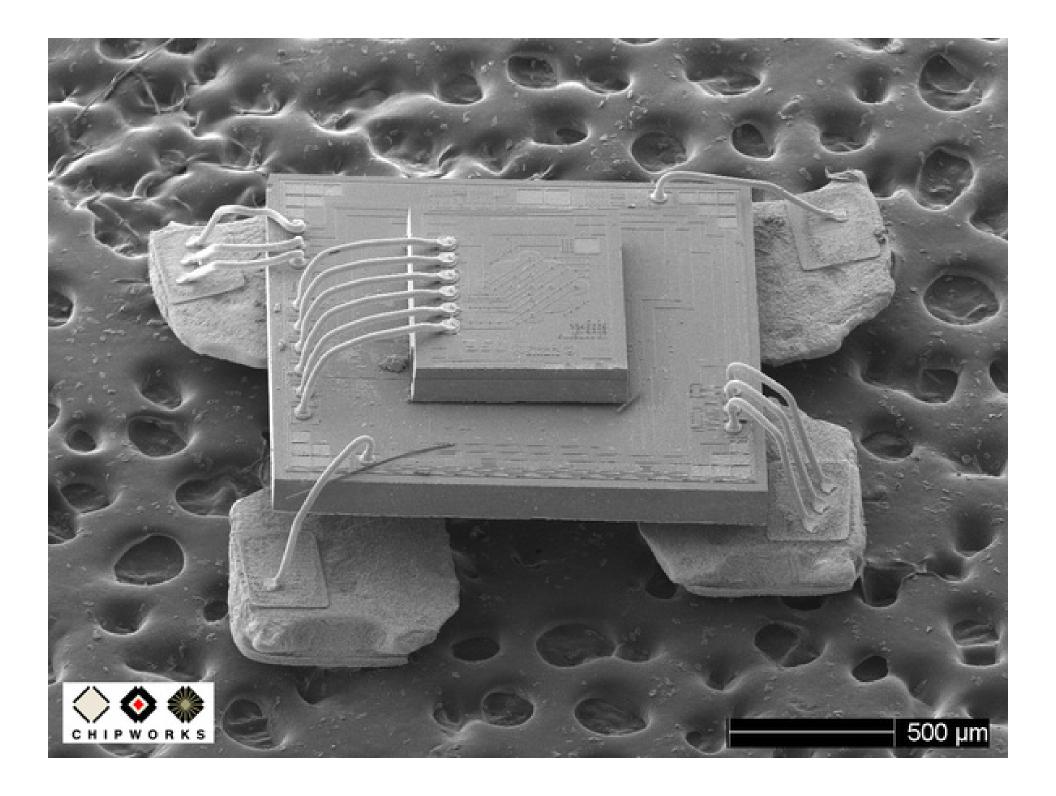
http://www.examiner.com/classic-movies-in-anaheim/top-5-classic-sci-fi-films

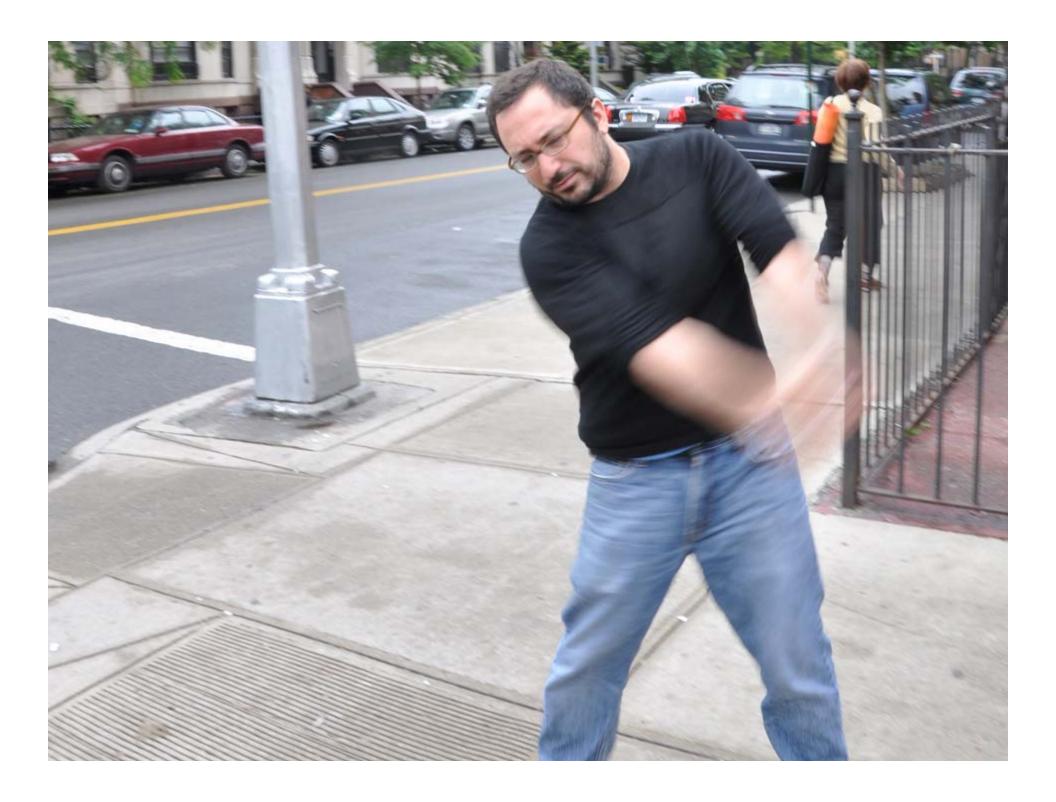
Robots are now part of the fabric of 21st century life, work and play.











Think beyond traditional notion of robotics...

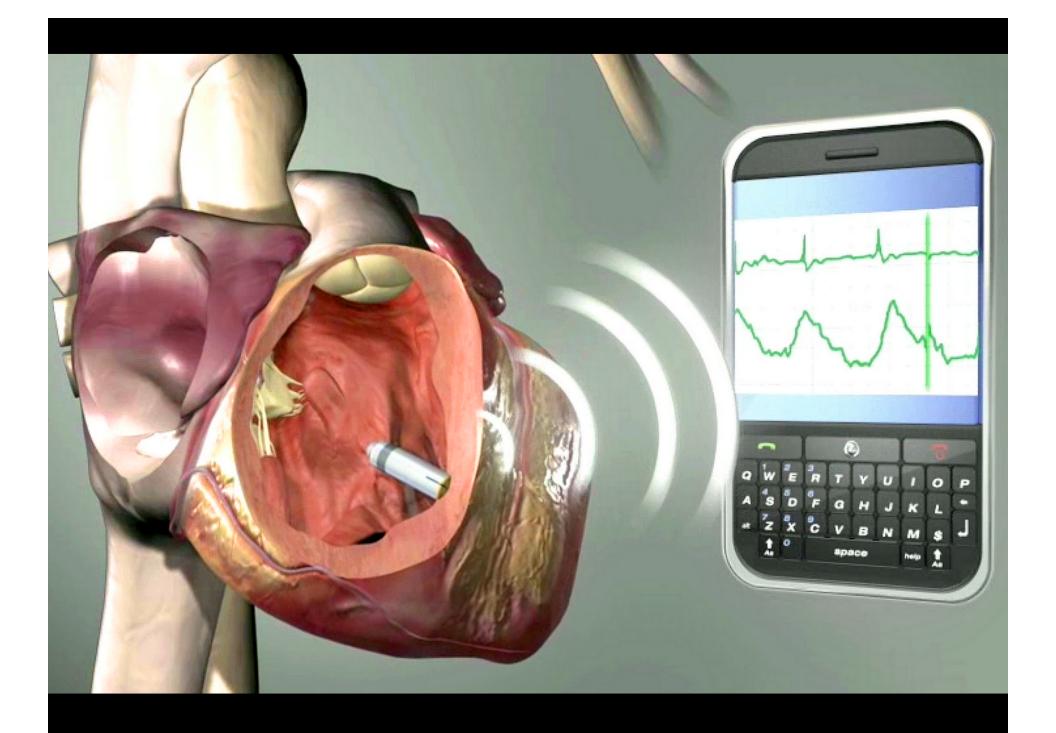






A Pacemaker the Size of a Tic Tac Medtronic is using microelectronics to make a pacemaker so small it can be injected. Technology Review

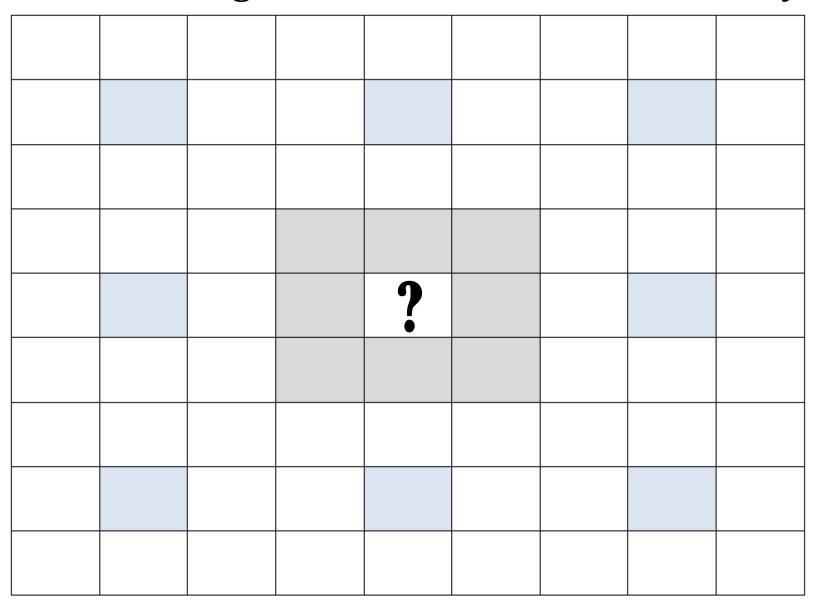
http://www.technologyreview.com/biomedicine/32436/?nlid=4177



Activity

Using the blossom method, please identify the key characteristics of student learning and teaching excellence in the 21st century.

What are the characteristics of student learning and teaching excellence in the 21st century?

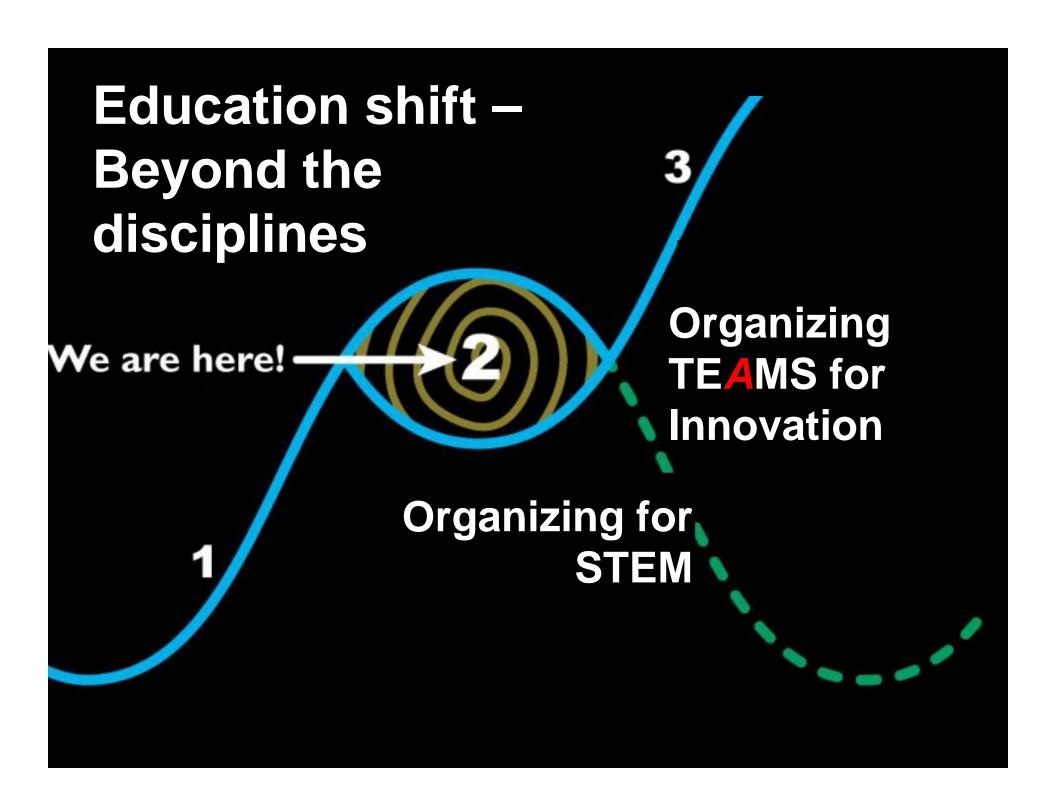


	Excellence	Innovation	Empowering		
	Trans-	9	Practicality		
	disciplinary		Practicality		
	Transformation	How	Entertainment		
		l			

Excellence		Innovation		Empowering	
	Excellence	Innovation	Empowering		
Trans- disciplinary	Trans- disciplinary	••	Practicality	Practicality	
	Transformation	How	Entertainment		
Transformation		How		Entertainment	

		T&L Excellence		



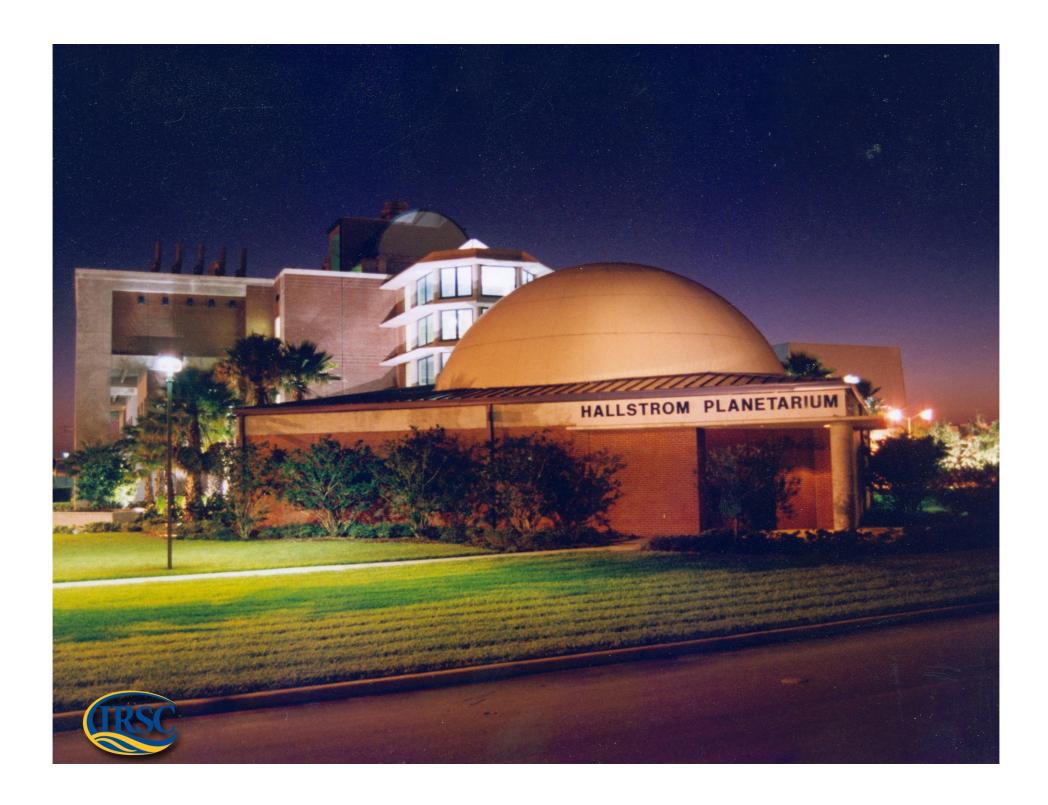




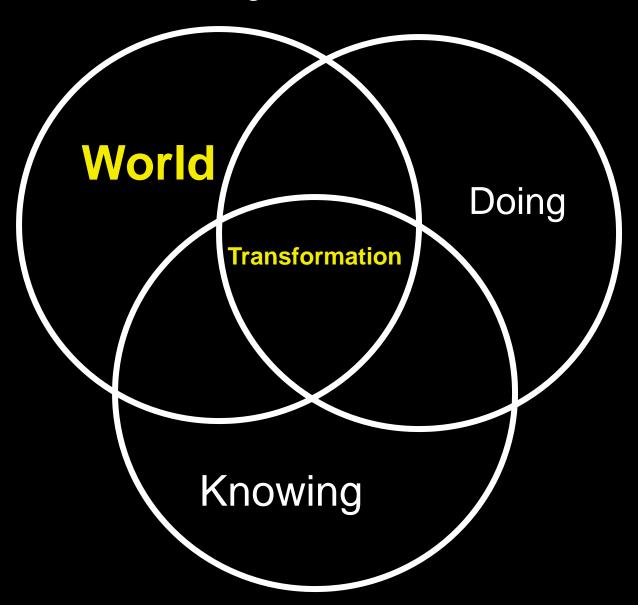






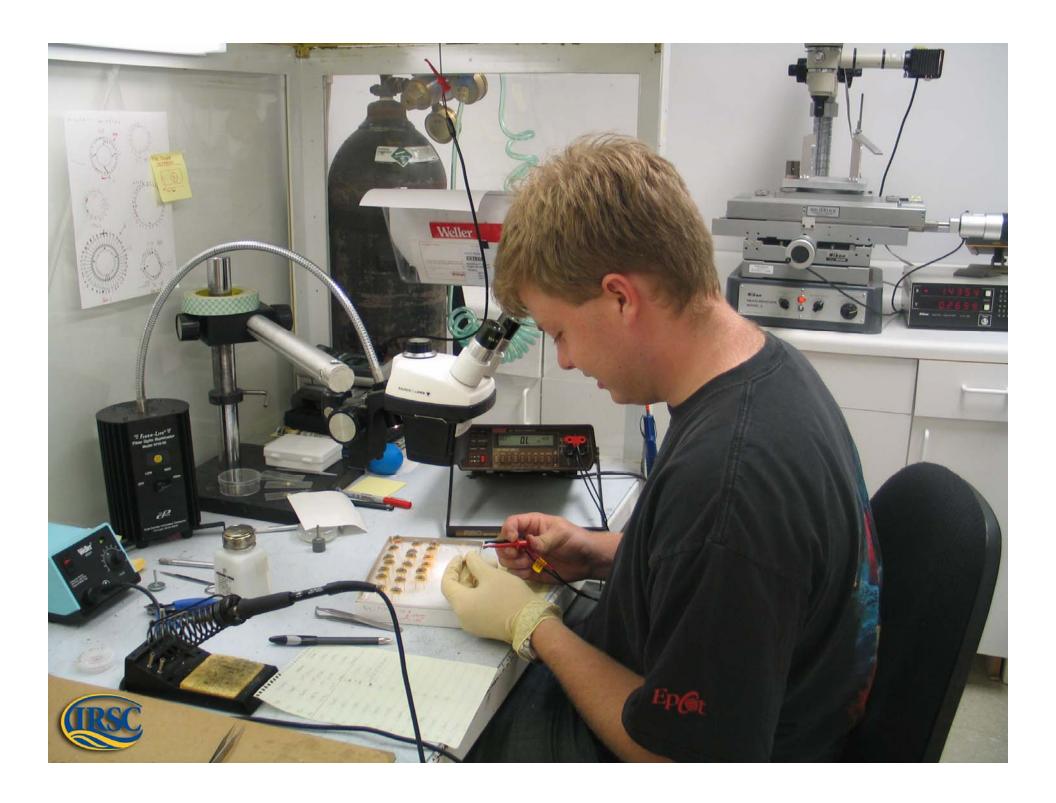


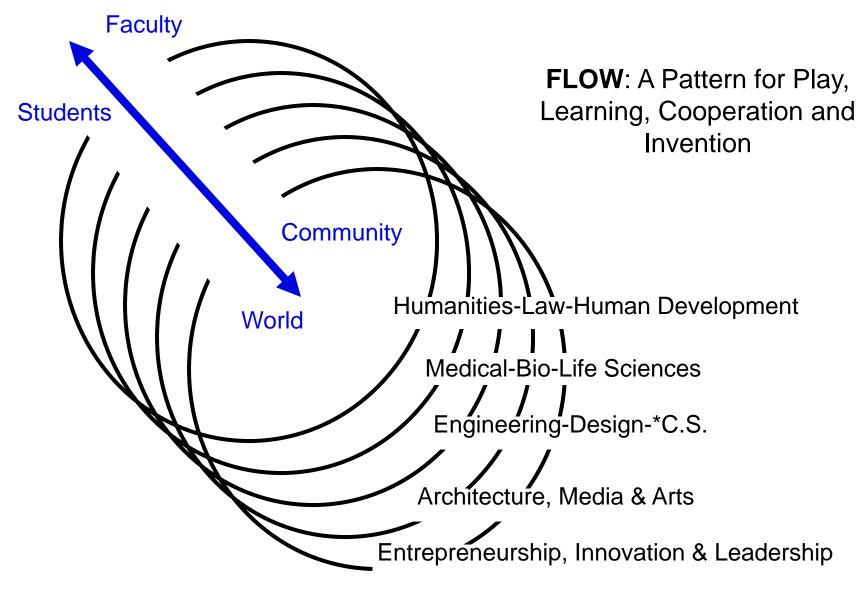
Techne', Art or Craft, Our purpose is to create. To give meaning to transformation.











Indian River State
College Current and
Emerging Pattern
Languages



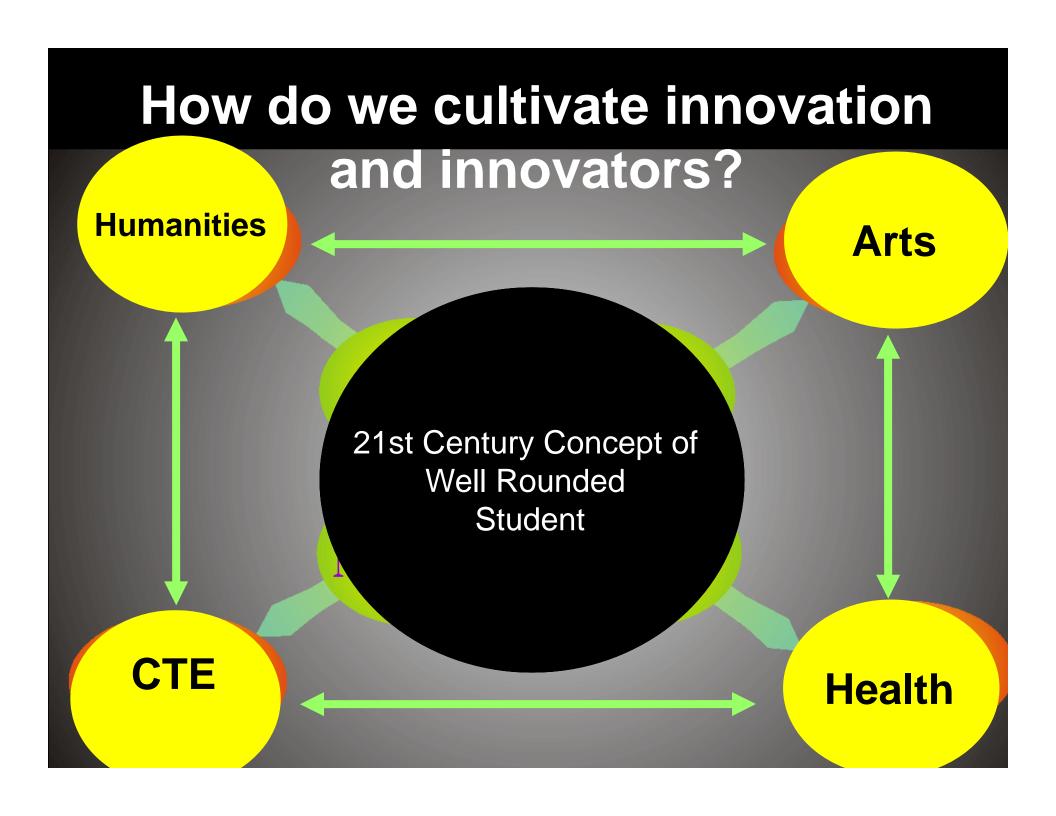




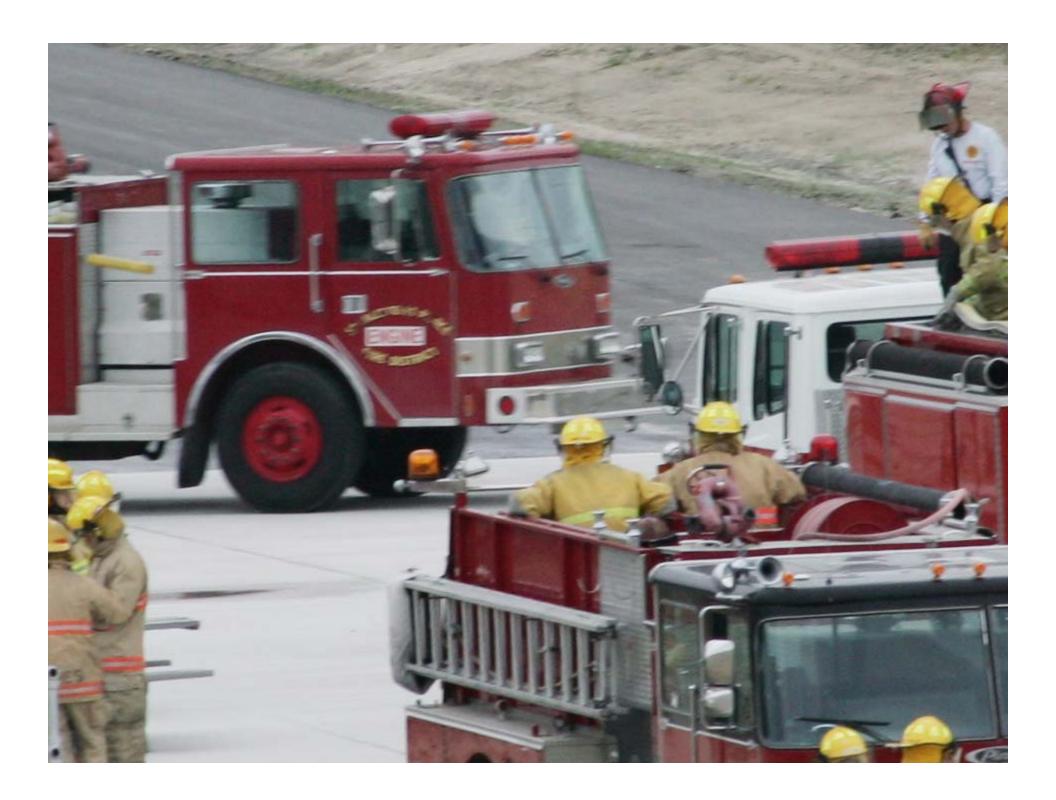




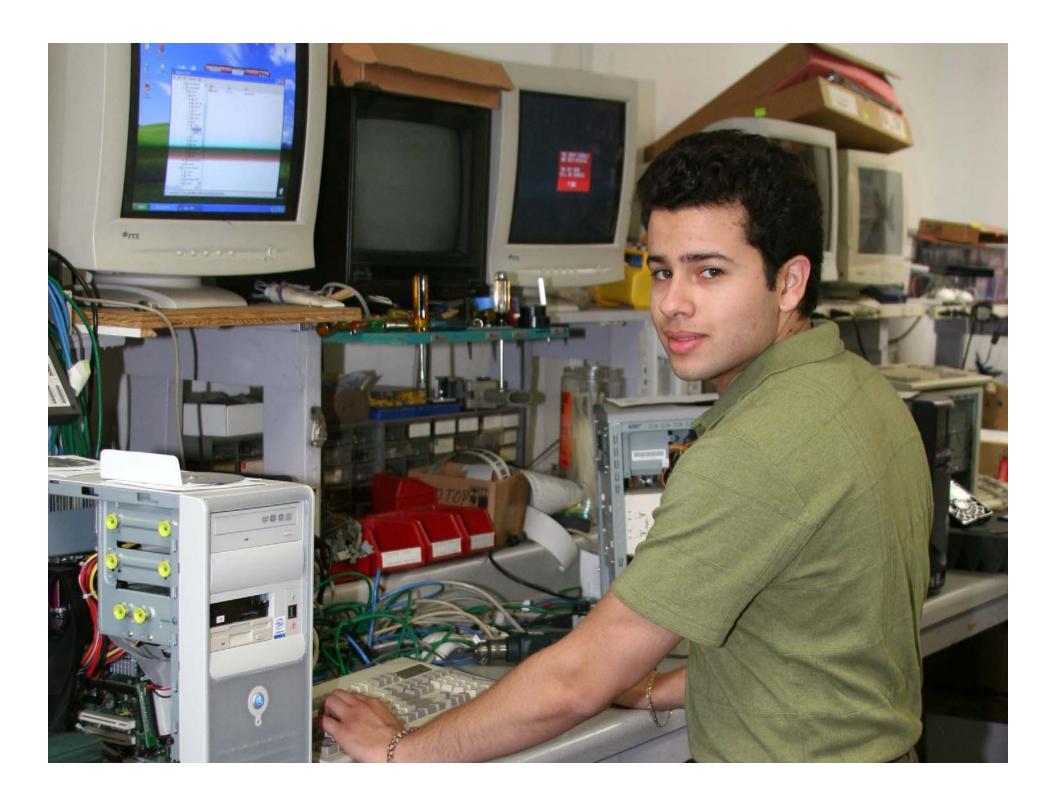




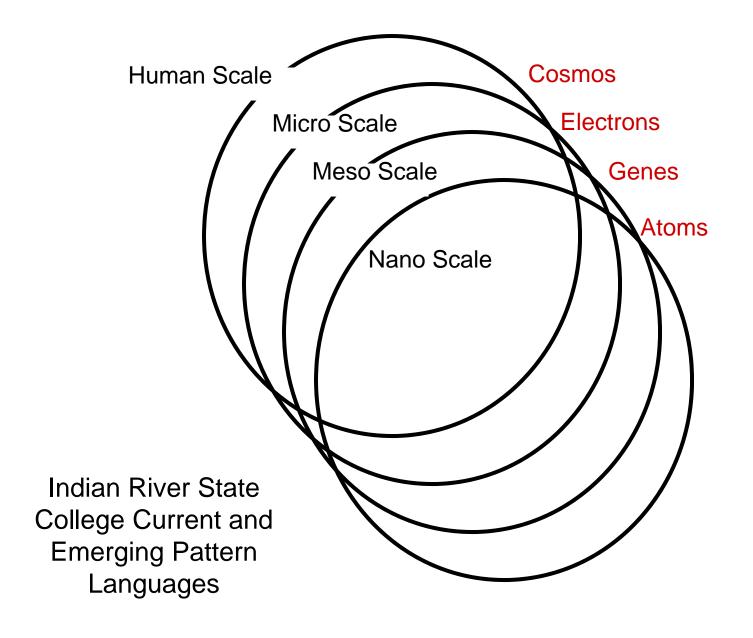








21st Century MATH Systems: Architectures



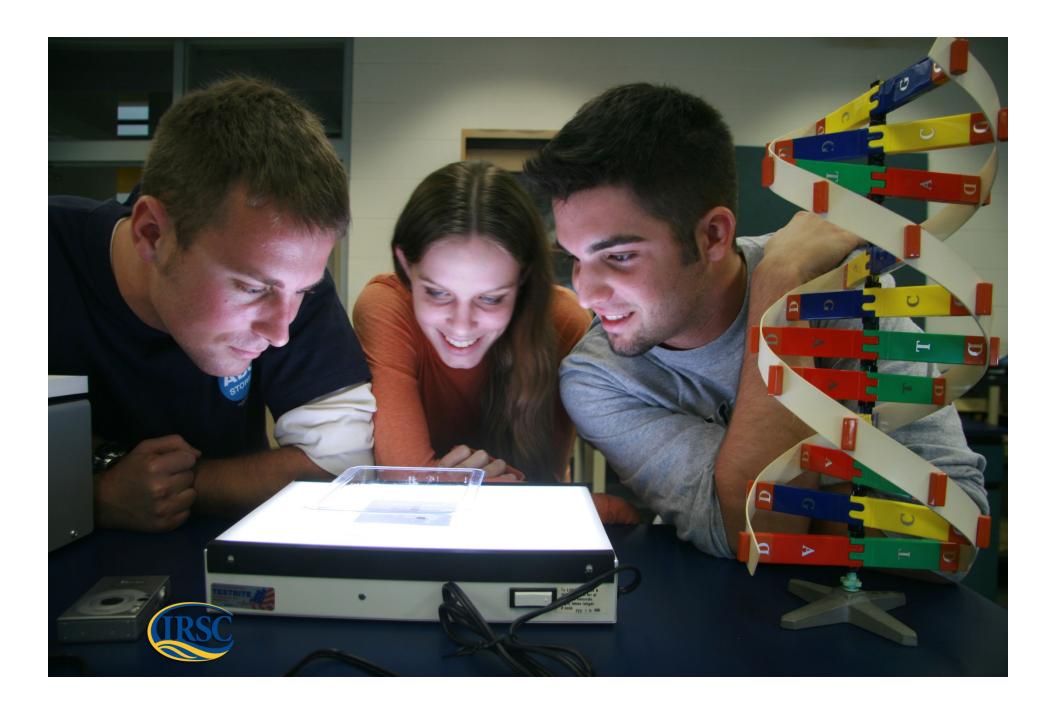


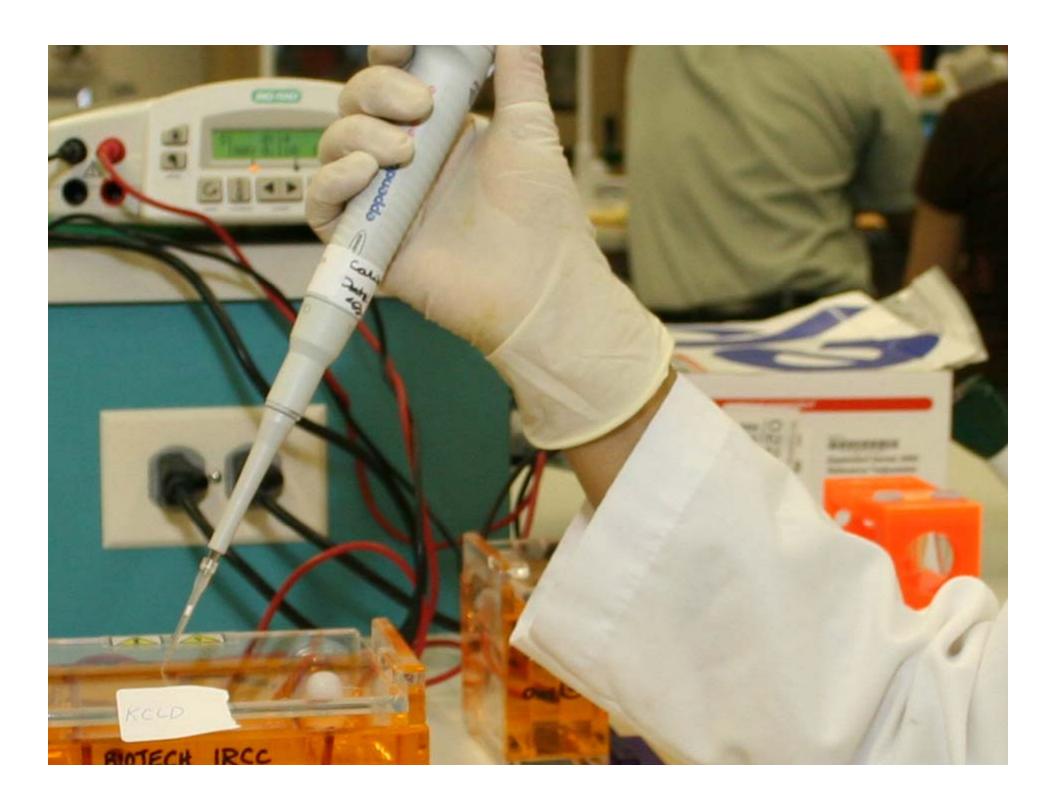




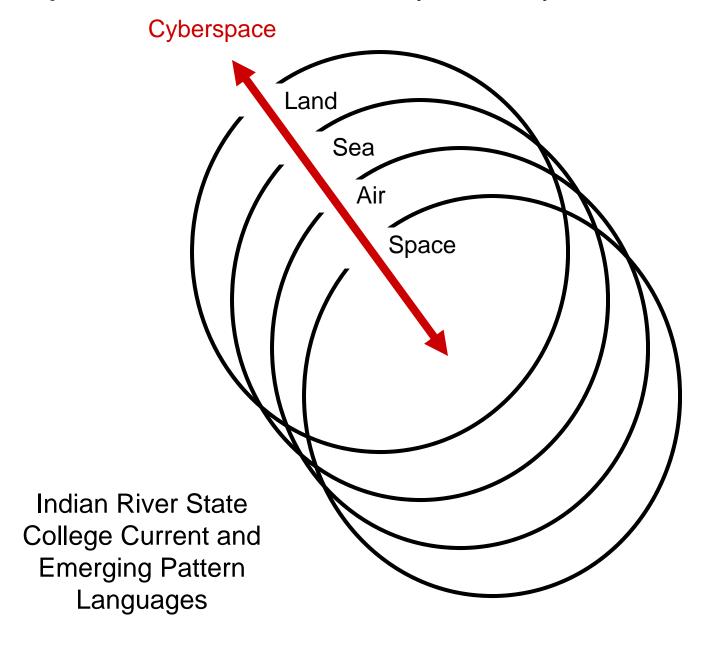


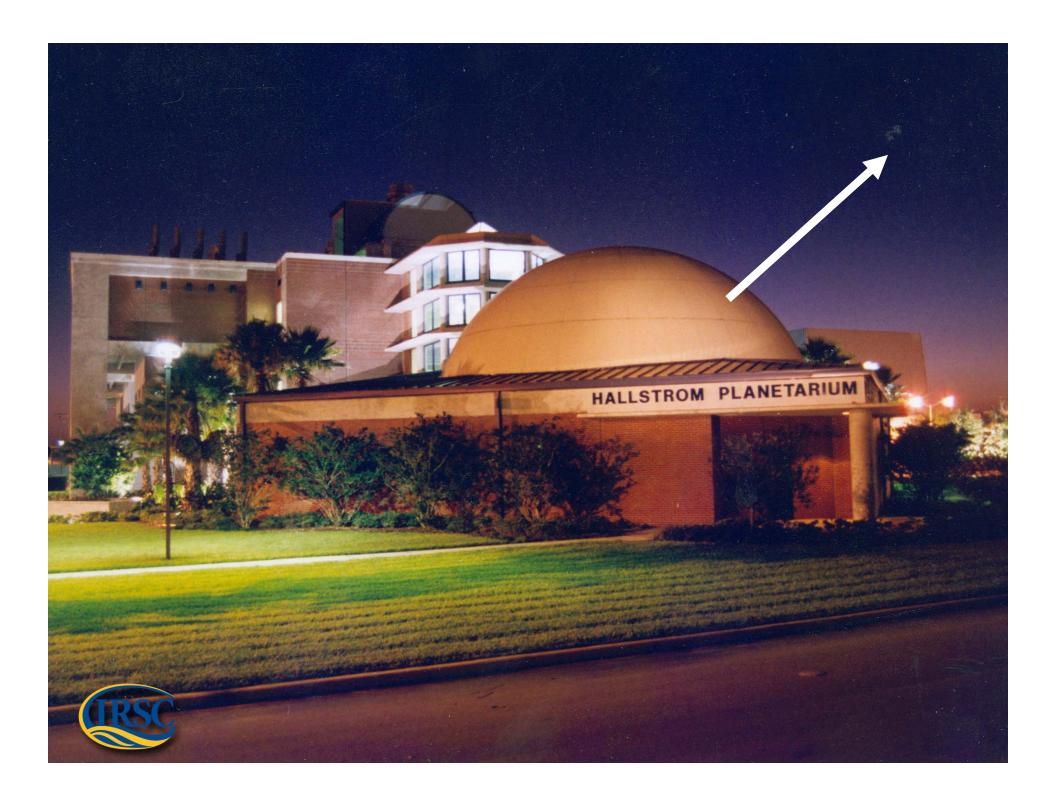


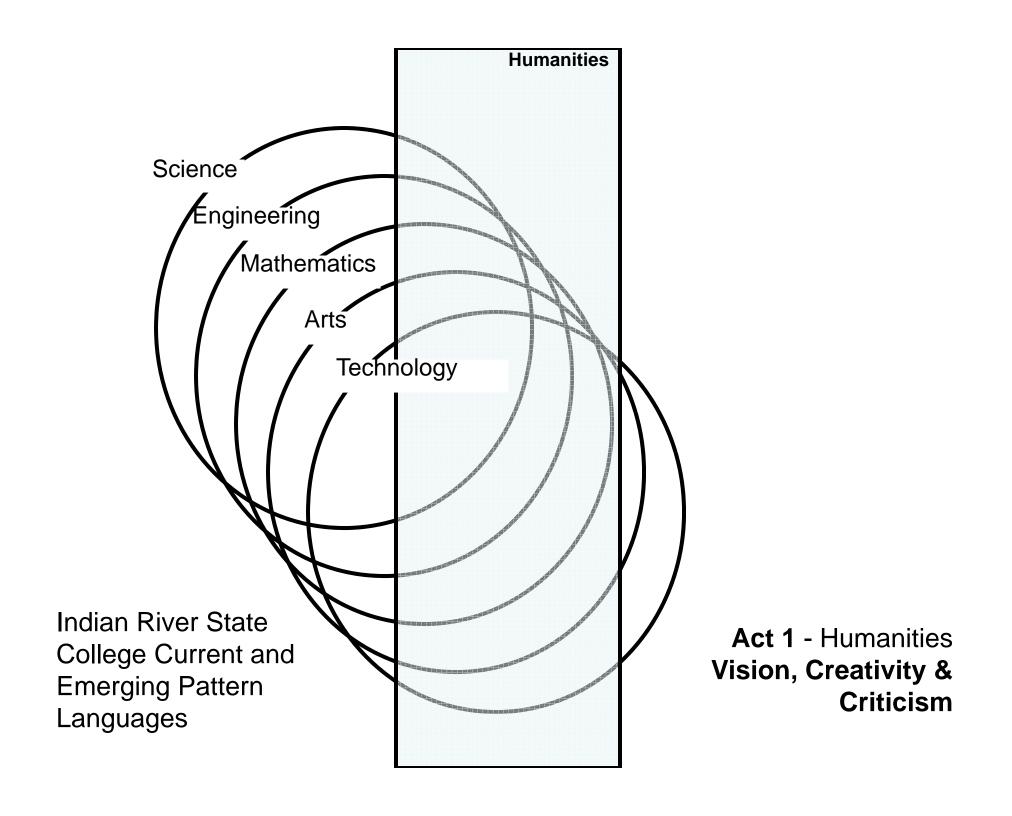




Operational Environments: A System of Systems



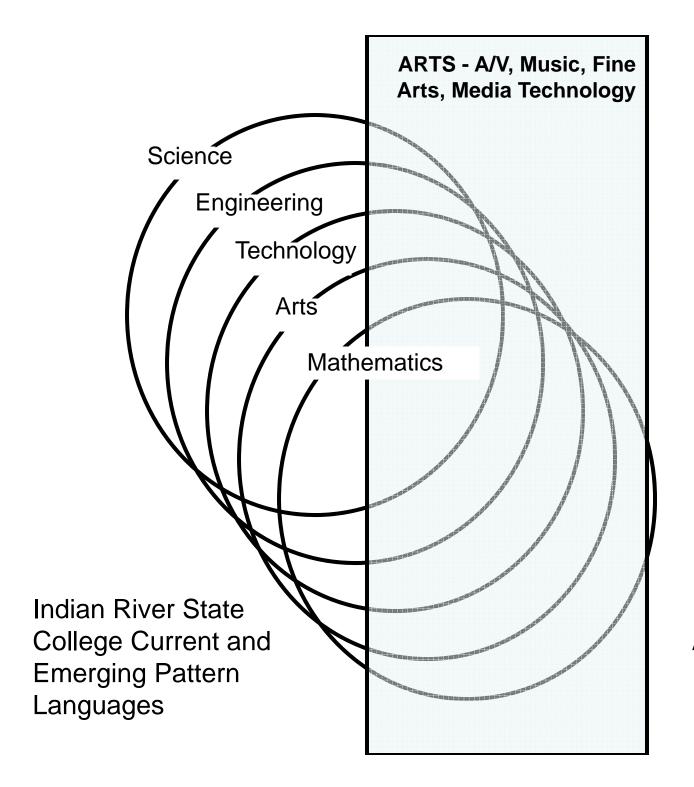




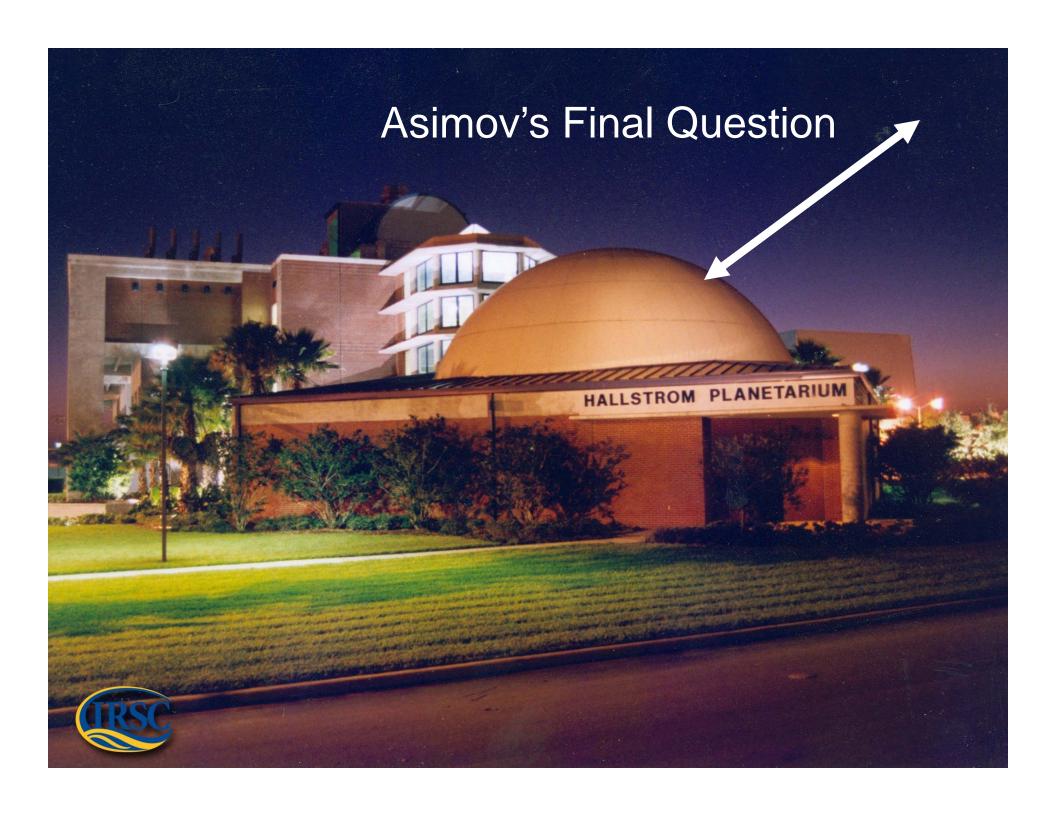
TEAMS is about engaging the whole of all disciplines to ask: ARTS ARE THE BRIDGE TO THE FUTURE

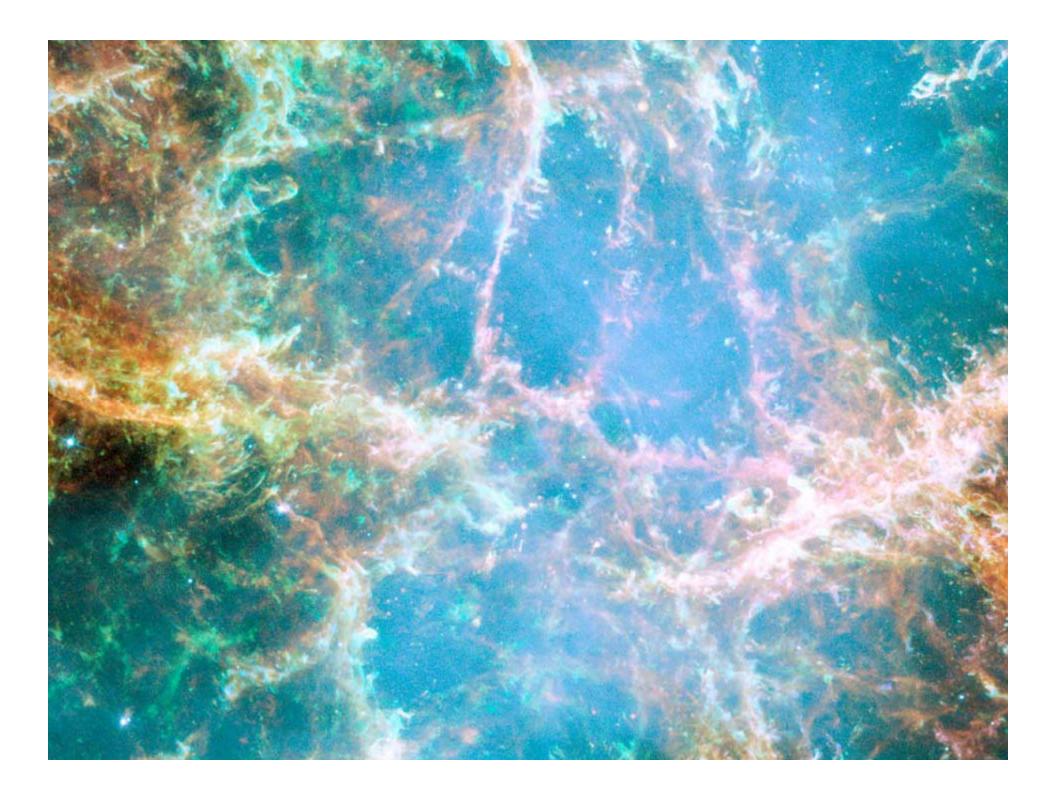
- •What is the human condition and what can we do about it?
- •What is the role of "design, creativity and critical thinking" in executing new designs for learning and the future of our species and the world?
- •How can we work together to put knowledge into action -- to create discourse across the disciplines -- and to link & integrate curricula with the world?
- •How can we shift learning so that students take more responsibility for learning and teachers can take back the sandbox of learning?

TEAMS is about engaging the whole while preserving and leveraging what is important and unique in the parts. The goal is holistic thinking, learning, and practice. The desired result is a stronger educational community of practice and better educational, social, and economic outcomes for students and civil society.



Act 2 - Cultural and Technical Arts



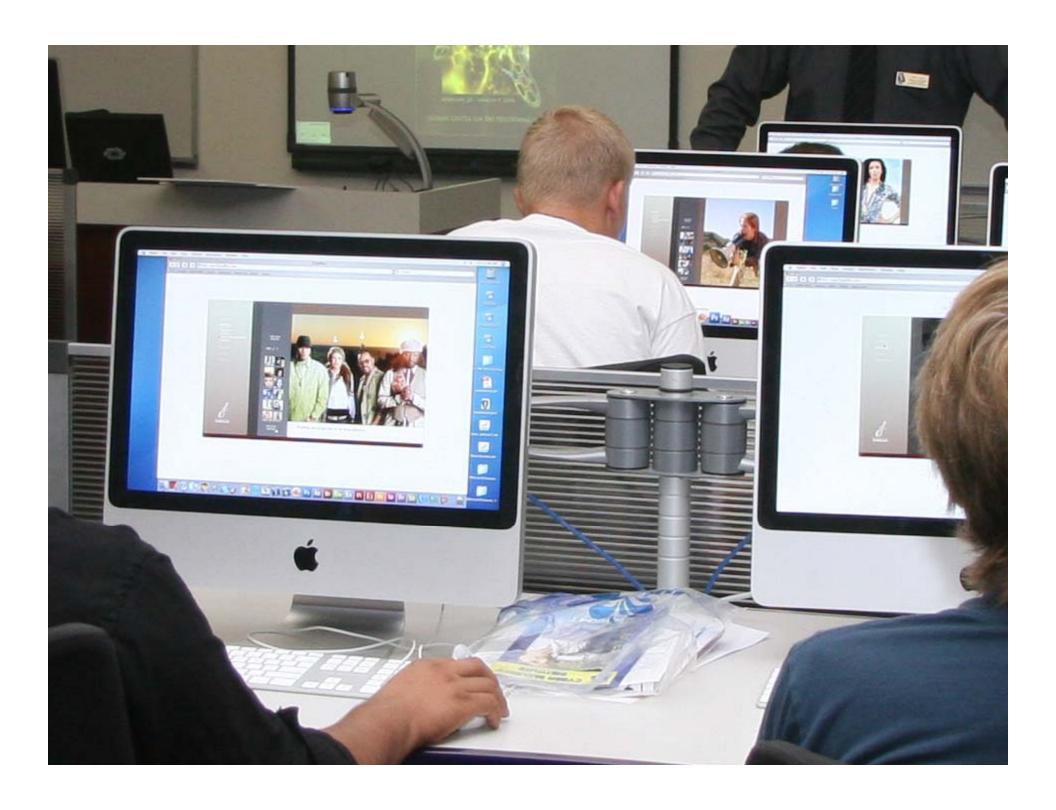


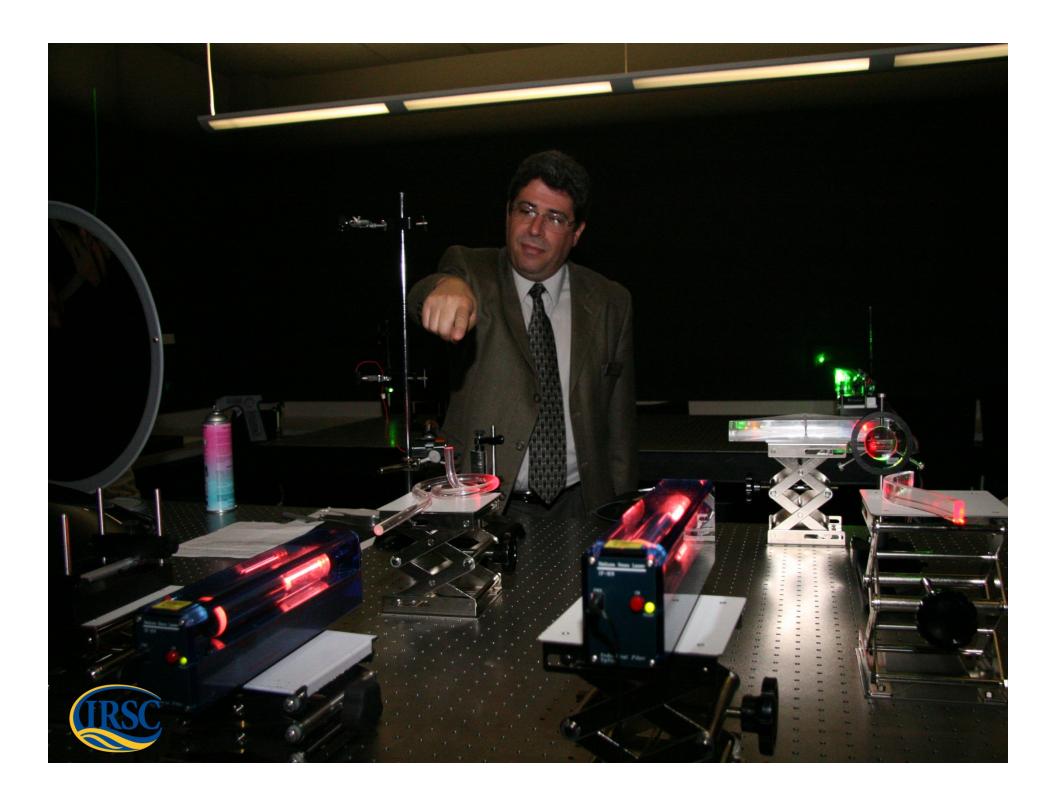
Symphony No. 7 (Beethoven)

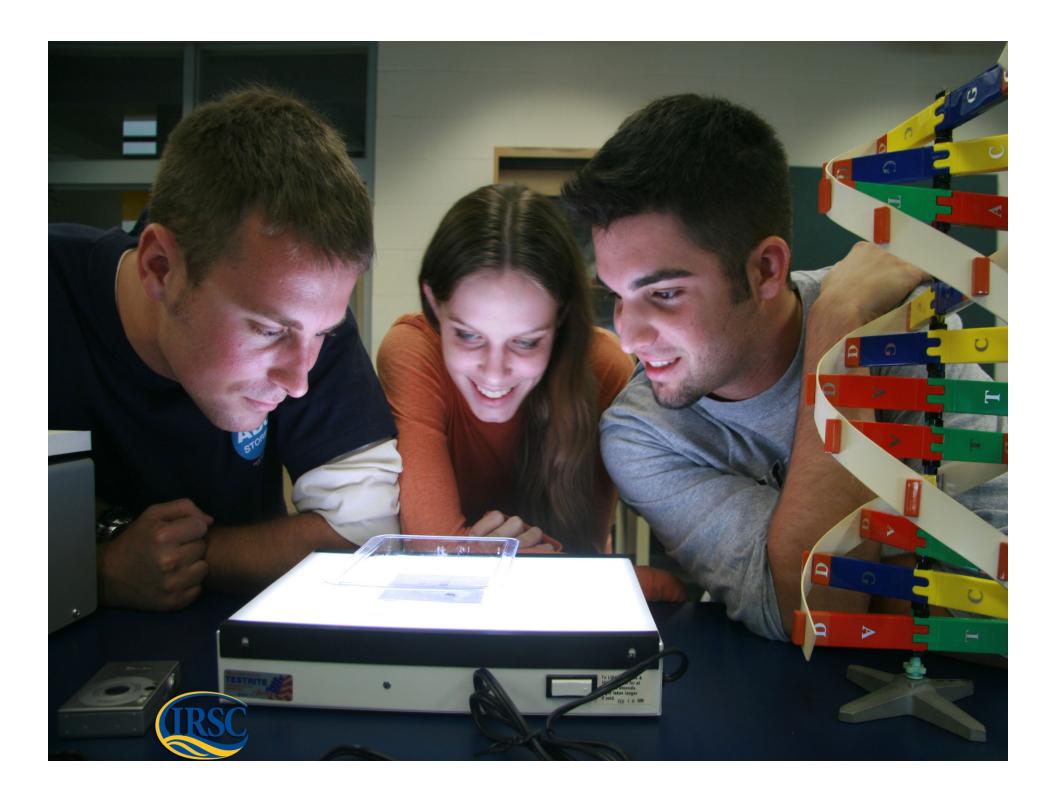
Critics and listeners have often felt stirred or inspired by the Seventh Symphony. For instance, one program-note author writes:[3] ... the final movement zips along at an irrepressible pace that threatens to sweep the entire orchestra off its feet and around the theater, caught up in the sheer joy of performing one of the most perfect symphonies ever written. Composer and music author Antony Hopkins says of the symphony:[4] The Seventh Symphony perhaps more than any of the others gives us a feeling of true spontaneity; the notes seem to fly off the page as we are borne along on a floodtide of inspired invention. Beethoven himself spoke of it fondly as "one of my best works". Who are we to dispute his judgment? Another admirer, Richard Wagner, referring to the lively rhythms which permeate the work, called it the "apotheosis of the dance".[2]

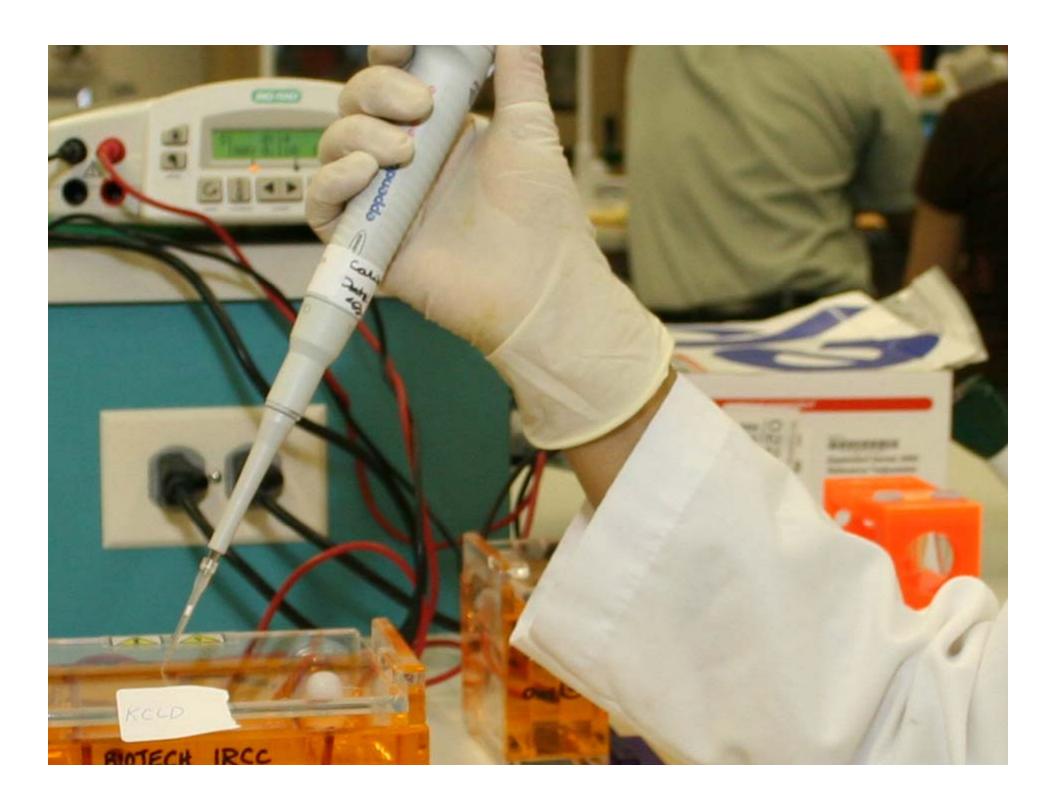


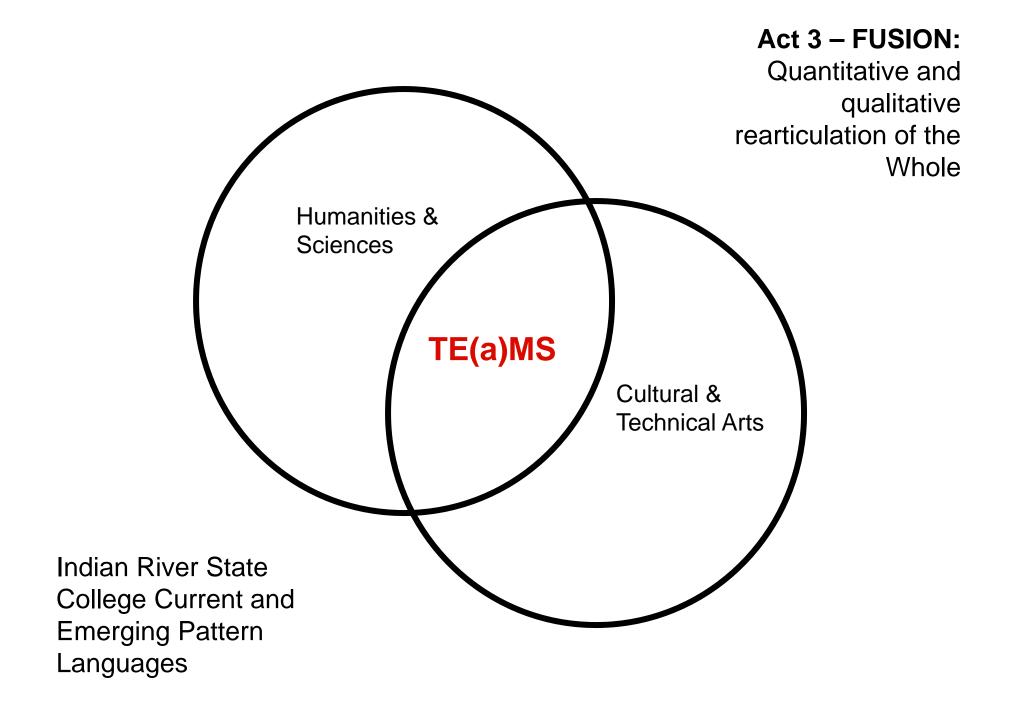






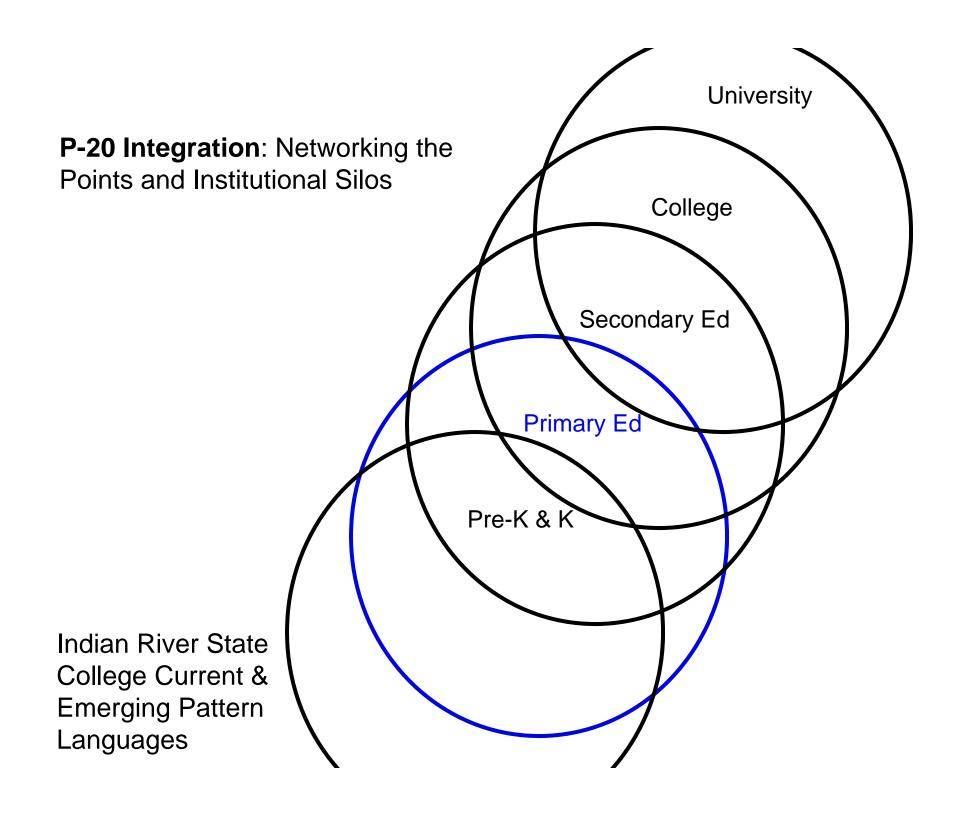






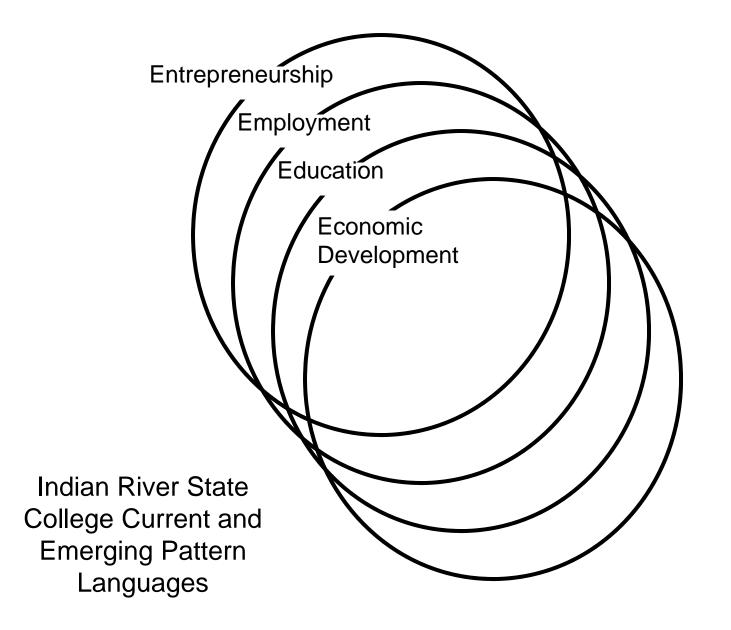


Technology - Techne - Art or craft. The Technology are us.





Research Cove at Treasure Coast FL: Entrepreneurship, Employment, Education and Economic Development Coordination



In the Technopolis world there are many research coasts. Branding is about experience. And if people have found riches on your shore historically. It's a natural bridge for the future.





Haiku - MCC

Here I sit all broken-hearted
Loved this lecture
And then departed...

If you have time, write a haiku reflecting the transformation and changes you learned and experienced in this webinar.

- (5) The moment two are
- (7) united they both vanish
- (5) A lotus blooms here.

Murakami, Kijo. (1865-1938), Adapted by Brazell http://www.toyomasu.com/haiku/#time

Hint – Use your blossom...





Thank you for attending the MATEC NetWorks webinar

From STEM to STEAM: The Importance of Arts in STEM

Classroom-ready resources in the Digital Library

All this and more at: www.matecnetworks.org



Whether you are joining us live or watching the recorded version of this webinar, please take 1 minute to provide your feedback and suggestions.

http://questionpro.com/t/ABkVkZLIdU



Webinar Resources

Registrants will be notified with instructions on how to access the presentation.





Upcoming Webinars

May 11: NetWorks

Bridge to Technology

www.matecnetworks.org/growth.php







Join Us in Denver

JULY 23-26, 2012

www.highimpact-tec.org



Certificate of Participation

If you attended the live version of this webinar and would like a certificate of participation, please email

shannon.payne@domail.maricopa.edu



Thank You!

Thank you for attending the MATEC NetWorks Webinar

From STEM to STEAM:
The Importance of Arts in STEM