kynamatrix*ResearchNetwork*

innovation through collaboration

Organizational Overview

What is kynamatrix?

kynamatrix Research Network is a framework for innovation through collaboration. We are a volunteer-operated, independent nonprofit scientific research organization founded in 2004. We promote innovation, research, and scholarship in the area of interactive communication and multi-disciplinary collaboration. We foster strategic alliances between researchers in four quadrants; connecting industry, government, academia, and nonprofits.

The name, pronounced "kinna-MATRIX", is a combination of "kyna" (meaning "intelligent; kinetic") and "matrix" (meaning "a network of intersections").

Principles

We believe that collaboration is the key to innovation. It is in the intersection between two intelligent entities where new ideas are born. Focusing on that intersection, we research and discover new forms and methods of interactive communication. This involves rethinking the existing paradigms by seeking alternative, seamless, and transparent technologies.

We hold to the following values: integrity and honesty, passion for innovation, scientific exploration and knowledge, appreciation for alternative perspectives and paradigms, charity, ethics, creativity, intelligence, simplicity, eco-friendliness, equal opportunity, diversity, family, hard work, and the satisfaction of discovery.

Programs

We operate two programs which work together toward achieving our mission.

Program 1: Research – Through a network of researchers dedicated to the scientific understanding and advancement of interactive communication, we are solving real-world problems and advancing innovation in the following applied areas:

Communication:	*Discovering new ideas at the boundary between two intelligent entities.*
Public Safety:	*Developing interactive solutions to make the world a safer place.*
Transportation:	*Researching alternative solutions to moving people and things.*
Energy:	*Collaborating in the renewable energy sector in wind power and solar technologies.*

Program 2: Grant Gifting – Through small grants to qualified universities, we encourage collaboration and the study of interactive communication in the applied areas of art, science, music, and literature.

Notable Achievements

Within the Research Program, we focus on advancing technologies in design, engineering, and computer science. We ask: "In the aftermath of disaster, how can we improve the user-experience of survivors, and better manage the logistics of provisioning products and services?"

To answer this, the Proximity Algorithm defines a robust method to rapidly deploy a self-sustaining environment, to better serve those in need, and deliver critical supplies and raw materials. The protocol can be utilized to assist victims with reintegration into society during the recovery phase.

Our research volunteers continue to investigate this interdisciplinary project which incorporates emerging technologies such as mobile on-site factories, robotic construction, fog computing, and autonomous vehicles.

In April 2007, we successfully launched a proof of concept project called Researc**HD**iscovery "*Where research meets discovery in high definition*." This project represents the next generation in collaborative research, opening virtual windows between university labs to discover new ideas and eliminate boundaries.

Researc**HD**iscovery established a permanent installation connecting researchers at six top U.S. universities. Carnegie Mellon University, Georgia Institute of Technology, Harvard University, Massachusetts Institute of Technology, Stanford University, and University of Washington received state-of-the-art 2-way high-definition videoconferencing equipment donated from supportive industry vendors and donated funds from public sources. Graduate students and professors at these universities now have the opportunity to participate in face-to-face collaborative research projects.

In the Grant Gifting Program, since inception, kynamatrix has awarded a total of $215,500 in support of diverse research projects at a number of schools and universities. See our website for more details.

Making a Difference

You can make a difference by donating either financially or by volunteering your time and effort. As a registered 501(c)(3) public charity, donations to kynamatrix are deductible under IRC 170. To volunteer, donate, or learn more, please visit our website at kynamatrix.org. Alternatively, you may mail a check (payable to "kynamatrix Research Network") to the address at the top of page 1. (Be sure to include your name, address, city, state, & zip for donations requiring a receipt.)

Your contributions help innovative research become a reality.
By supporting kynamatrix Research Network, you assist directly in making technology more transparent for our whole community.

Innovation begins with questions:

What if we could order something and have it delivered in minutes?

How can we help rescue workers be more effective in helping the victims of natural disasters?

How can we reduce energy consumption, gridlock, and harmful emissions?

How do we make technology more transparent and useful?

How can researchers across the nation interact face-to-face effectively without travel?

"You never change things by fighting the existing reality. To change something, build a new model that makes the existing model obsolete."
– Buckminster Fuller