Envision Center is ITaP's data visualization and multimedia production services center. The center uses a blend of technology and art to display information visually, simplify understanding, and create a springboard for new insights, whether in research or the classroom. Envision helps faculty enhance teaching and learning by graphically representing data and information through techniques such as scientific visualization, animation, motion capture, and immersive 3-D virtual environments.

Envision Center is TRAPS data visualization and multimedia production services center. The center uses a blend of technology and art to display information graphically in ways that communicate the complex more effectively.
VIRTUAL SIMULATION

Virtual reality simulation and training through 3-D environments deployable to mobile devices, desktop/laptop, the Web and Envision’s flagship immersive CAVE, a room-sized four-walled theater for projecting and interacting with virtual environments and data visualizations.

DATA VISUALIZATION AND ANALYSIS

Visual and interactive representation of research to help researchers and audiences, including funding agencies, better understand data and results — and even to step inside them.

HUMAN-COMPUTER INTERACTION

Motion capture, body tracking, gesture recognition, haptics (touch and feel) and other technologies to link the real and virtual worlds for research and education purposes.

MEDIA CREATION

Video production and animation for use in research presentation and scientifically accurate educational training and animation. For use in publication, data visualization, virtual reality simulation and content-generation projects.

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Besides operating the hardware and software, the Envision Center’s expert staff and students consult on ways to graphically represent projects and collaborate on grants, including building proof-of-concept demos for proposals.