INSTITUTIONAL Inputs
- Shared support of C/T research with key partners
- Breadth of partnering department, schools, and institutions
- Ongoing inter-school and inter-department collaborations
- Community outreach programs
- Large multi-institutional grants

Activities
- INSTITUTIONAL Education
  - Expand and accelerate training and career development
- Integration
  - Foster and enhance fundamental changes in the research infrastructure
  - Implement mechanisms to support feedback loop (i.e., dashboard)
- Collaboration
  - Create incentives through funding mechanisms to promote inter & transdisciplinary collaborations
  - Promote community-based population health research
  - Facilitate inter-institutional partnerships with community, academic, health care and industrial organizations

Outputs
- INSTITUTIONAL Education
  - # of ICTS grantee publications
  - # of junior faculty promoted in C/T research tenure tracks
  - # of C/T research grants submitted & awarded
- Integration
  - Streamlined processes for approval & completion of research (# of submissions and re-submissions to IRB)
  - Regular feedback regarding process and procedures
- Collaboration
  - # grants & publications/submissions involving multiple departments, schools, institutions
  - # of collaborations between basic science researchers and clinical researchers

Intermediate Outcomes
- INSTITUTIONAL Education
  - Increased number of educational programs to teach clinical research to basic science trainees, and basic science to clinical research trainee
- Integration
  - Efficient conduction and approval of research
  - Improvement or elimination of programs through feedback
- Collaboration
  - Increased interdisciplinary research spanning multiple schools and institutions
  - Increased number of community-based population health research projects
  - Increased numbers of new therapeutics
  - Increased translation of genetic/genomic research into clinical research

Core Staff, Budgets, & Services of the following Cores:
- Administrative Data Research
- Applied Research Sciences
- Biomedical Informatics
- Brain, Behavior & Perf.
- Business development
- Clinical research ethics
- Community Engaged Research
- Dissemination & Implementation Research
- Economic Eval. in Medicine
- Human Genetics & Genomics
- Human Imaging Unit
- Novel Methodologies
- Regulatory Support
- Research Design & Biostats
- Translational Pathology & Molecular Phenotyping

Scientist
- Interest in C/T research
- Experience
- Time
- Mentorship
- Collaboration (multi and transdisciplinary)

SCIENTIST Education
- Provide mentorship to newly CTSA trainees
- Initiate collaborations with researchers outside of discipline to work on T1, T2 & T3 research
- Conduct studies of new therapeutic methods to use in clinical practice.
- Conduct studies of genetic/genomic technologies to use in clinical practice.
- Initiate collaborations with external partners to perform C/T research

SCIENTIST Collaboration
- # mentor/mentee relationships established
- # trainees involved in C/T research at WU
- # trainees receiving funding for C/T pilot research
- # grants/submissions involving multiple departments, schools, institutions
- # of publications resulting from ICTS funded research
- # of C/T research grants awarded

Environmental Influences
ICTS External Advisory Board, Funding

Long-term Outcomes
- Development of new therapeutics
- Development of clinical applications using genome and genomic technologies
- Increased capacity to conduct C/T research through established educational and training programs
- Increased funding and participation in C/T research at WU and throughout region
- Identification of ICTS as a coordinating body for C/T research by partner institutions and community

Impact
- Improved health through the translation of science into clinical & public health practice.
- Enhanced partnership between community and ICTS in providing healthcare and increased effort to address regional issues