Building on its long track record and rich experience in evaluating road projects, CTI Engineering supports you in calculating the effect of a road improvement project or other project evaluation.

- CTI quantitatively evaluates the effects of road development projects in line with the characteristics and purposes of the project.
- For some of the items to be evaluated in road development projects, we convert them into benefits (monetary values) so you can use them in a cost-benefit analysis.
- As to the method of calculating the benefits, we clarify theoretical grounds citing overseas and precedent cases, and, taking experts’ opinions into account, summarize the method of calculation in a manual.

Examples of benefits can be estimated:
- Holiday traffic
- Winter traffic
- Lifting of traffic regulations
- Elimination of disaster risk
- Elimination of risk of isolated areas
- Improved reliability of traveling time
- Improved driving experience
- Improved emergency life-saving rate
- Improvement of local medical care
- Increased number of tourists visiting the area
- Improved amenity of urban space
- Reduced division within a neighborhood
- Improved functions along roads
- Improved environment
Road Project Evaluation (cont.)

Example of Calculation of Benefits: Improvement of Emergency and Life-Saving Rate

Before the road improvement:
About 61%

After the road improvement:
About 36%

The life-saving rate in profuse hemorrhage cases improved by about 25 point

Benefits from the improved emergency life-saving rate

= Monetary value of human lives lost before the road improvement project
- Monetary value of human lives lost after the road improvement project
= (Population of the areas that reduced travelling time after the road improvement project) x (Rate of improvement in life-saving rate after the road improvement: - Δ %) x (Value of human life: ___ million yen/person)