# Road Administration Management in Regional Level in Japan

March 2004

Performance Management Office Road Bureau, Ministry of Land, Infrastructure and Transport

### 1. Promoting road administration management in regional level

Tokyo, Hokkaido, and many prefectures have worked out a succession of "performance plans" to disclose their numerical targets and details of measures and projects to be implemented to carry out immediately effective management of road administration that meets the features and needs of each region. As of today, <u>Tokyo, Hokkaido and 29 prefectures</u> (including seven that are preparing to

release public comments) have worked out and released performance plans for road administration.

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YAMAGATA prefecture
                                http://www.ym-mlit.go.jp/road/outcome/
                         7/31
AOMORI prefecture
                                 http://www.thr.mlit.go.jp/aomori/gyouseki/
                         7/31
                                 http://www.at.wakwak.com/ k tdmiwa/
IWATE prefecture
                         7/31
MIYAGI prefecture
                          8/21
                                 http://www.sendai-mlit.go.jp/hp/outcome/
                                 http://www.fks-wo.thr.mlit.go.jp/outcome/
FUKUSHIMA prefecture
                         9/2
                                http://www.road.dc.ogb.go.jp/ir/kisya/kondankai/h15/h15kondan.htm
OKINAWA prefecture
                          9/24
NIIGATA prefecture
                                 http://www.pref.niigata.jp/dobokubu/sosiki/honcho/douroken/niigatakengyousekikeikaku.html
                          9/25
NAGANO prefecture
                                http://www.pref.nagano.jp/doboku/douken/outkamu.htm
                          9/26
AKITA prefecture
                          9/29
                                http://www.thr.mlit.go.jp/akita/outcome/
                                http://www.ok-links.jp/osaka/topics/project osaka/
OSAKA prefecture
                          9/29
                                http://www.pref.toyama.jp/sections/1501/outcome/outcome.htm
TOYAMA prefecture
                          9/30
ISHIKAWA prefecture
                         10/9
                                 http://www.hrr.mlit.go.jp/kanazawa/
WAKAYAMA prefecture
                         10/16 http://kkr.mlit.go.jp/kinan/
TOCHIGI prefecture
                         10/21 http://www.pref.tochigi.jp/douken/pc/autokamu/autokamu.html
TOKUSHIMA prefecture
                         10/31 http://www.skr.mlit.go.ip/road/ir/index.html
KAGAWA prefecture
                         10/31 http://www.skr.mlit.go.jp/road/ir/index.html
EHIME prefecture
                          10/31 http://www.skr.mlit.go.jp/road/ir/index.html
KOCHI prefecture
                         10/31 http://www.skr.mlit.go.jp/road/ir/index.html
HOKKAIDO
                         11/26 http://www.hkd.mlit.go.jp/
HYOGO prefecture
                                 http://www.hyogo-wo.go.jp/news/press/index.html
OKAYAMA prefecture
                         12/16 http://www.okakoku-mlit.go.jp/news/2003/contents/oshirase 095.html
TOKYO
                         12/18 http://www.kensetsu.metro.tokyo.jp/outcome/index.html
SAITAMA prefecture
                         12/22 http://www.ktr.mlit.go.jp/oomiya/
                         12/24 http://www.gsr.mlit.go.jp/kumamoto/gyouseki/sian.html
KUMAMOTO prefecture
                         12/25 http://www.kkr.mlit.go.jp/nara/mitumeru/index.html
NARA prefecture
MIE prefecture
                         12/25 http://www.mdrc.jp/ir/gyouseki.html
                                 http://www.pref.shiga.jp/h/doro/outcome.html
SHIGA prefecture
                         1/28
FUKUI prefecture
                          2/12
                                 http://www.gifukoku.go.jp/gyouseki/pdf2.html
GIFU prefecture
                          2/19
                                 http://www.kyoto.kkr.mlit.go.jp/contents/outcomeplan15/index.htm
KYOTO prefecture
                          2/26
SHIZUOKA prefecture
                          3/10
                                 http://www.shizukoku.go.jp/plan/
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Other prefectures are also preparing their plans.

<sup>\*</sup>Fukushima, Nagano, Tochigi, Okayama, Kumamoto and Gifu Prefectures and Hokkaido have worked out rough plans and are seeking public comments.

### 2. Setting up performance indicators for each region

31 prefectures have set up nearly 160 indicators (as of December 20, 2003)

(About half of the indicators (80 indicators) are original ones for the regions concerned and different from those in nationwide performance plans)

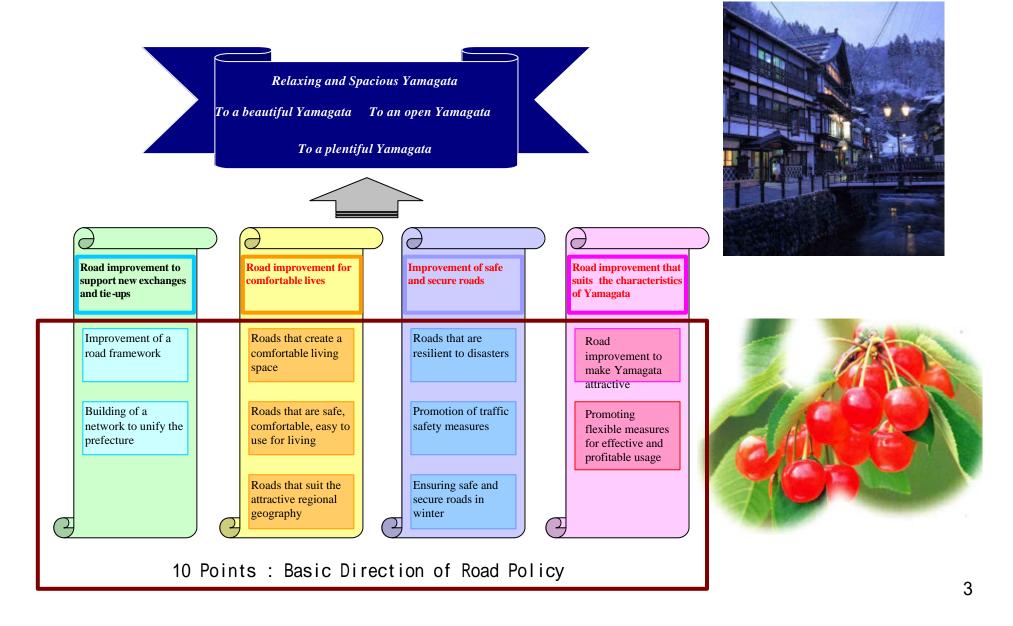
### Examples of original regional indicators:

Ratio of sections where driving speed is reduced during winter	Performance Plan 2003 for roads in Yamagata Pref.	(Yamagata Prefecture Trunk Road Council)
Ratio of snow removal in school zones during winter	Performance Plan 2003 for roads in Aomori Pref.	(Aomori Prefecture Trunk Road Council)
Ratio of population arriving at advanced medical facilities for new born babies in 60 minutes		
Ratio of safe areas for passing (automobiles and pedestrians)	Performance Plan 2003 for roads in Niigata Pref.	(Hokuriku Regional Development Bureau, Niigata Prefecture, Japan Highway Public Corporation)
Time required between seven areas and the city center	Performance Plan 2003 for roads in Fukushima Pref.	(Fukushima Prefecture Trunk Road Council)
Ratio of elimination of dangerous locations for disaster prevention.	Performance Plan 2003 for roads in Nagano Pref.	(Nagano Prefecture Trunk Road Council)
Time loss (amount) due to reduction of driving services during winter.	Performance Plan 2003 for roads in Akita Pref.	(Akita Prefecture Trunk Road Council)
Percentage of sidewalks with sufficient room in city area.	Performance Plan 2003 for roads in Toyama Pref.	(Toyama River and National Highway Construction Office,Toyama Prefecture)
Ratio of secured Ishikawa excursions.	Performance Plan 2003 for roads in Ishikawa Pref.	(Hokuriku Regional Development Bureau, Ishikawa prefecture, Japan Highway Public Corporation)

### 3.Example of "Performance Plan" in regional level

Performance Plan 2003 for roads in Yamagata Pref.

(Making Yamagata Prefecture Trunk Road Council)



NOTE: Some require a certain period monitoring before the effect of the measure and project becomes apparent and the degree of achievement in relation to the numerical target cannot be verified and evaluated at the beginning of the following year.

### Outcome goals for Yamagata Prefecture

Outcome Indicator		Target for 2003	Paris et la sertione	Reason for Setting target Indicator
Indicator	Current Indicator Value	Target for 2003	Project Locations	Value
Time Loss due to Congestion (Amount of congestion loss)	32.8 hr/yr/person 40.49 million hr/yr for the whole prefecture(2001) (¥121.1 billion/yr for the whole prefecture)	Reduction of 1hr/yr/person	National Road 7:  Mikawa bypass  Target is to reduce of about 4hr/ person in 5 year's time(2007).  Target achievement that's higher than the annual average as it is the first year of the Key Plan for Infrastructure Development	
No. of main congestion points	30 points(2002) (11 points in Yamagata urban areas)	Implement measures to eliminate and alleviate 6 points & points in Yamagata urban areas )	Elevation of Matsuoka intersection	Based on the New Yamagata Pref. Congestion Measures Program(draft)
Ratio of Death & Injury Accidents and Percentage of deaths	Death & injury accidents 75.8 cases/100 million vehicle - km yr(2001) (8,546 cases/yr)	Death & injury accidents Reduce to 74.3 cases/100 million vehicle - km (equivalent to about 8,380 cases/yr)		Target is to reduce by 7.5 cases /100 million vehicle-km in 5 yrs(2007)
	Percentage of deaths 0.76person/100 million vehicle - km yr(2001) (86 persons/yr)	Percentage of deaths Reduce to 0.75person/100 million vehicle-km (equivalent to 85 persons/yr)	National Road 286: Widening of Teppomachi	Coordinate with the target in Yamagata Pref. Traffic Safety Plan
Motorway's Share of Traffic	2.5% share @001 )	2.8% share	Akayu bypass( a section) 30% discount coupon tickets for expressways	Target indicator value set by taking the development of motorways and introduction of 30% discount coupon tickests for expressways into consideration
Ratio of Roads Designed for Winter Safety	10.0% (1999)	Aim for 11%	National Road 112: Kamozaka bypass National Road 458: Hasedo bypass	Target indicator value set by taking the progress of the project into consideration
Ratio of Sections with Lower Driving Speed in Winter	39.0% (2002)	Aim for 38.0%	National Road 7: mikawa bypass Ordinary Prefectural Road: Higashinuma Naganuma Amarume route	progress of the project into consideration

### Main projects to be Implemented to Achieve Goals (Sections scheduled for FY2003)

National Road 7 Mikawa bypass	·National Road 112 Tsuruoka district power lineutility tunnel	Major Regional Road: Yamagata Kaminoyama route (Kaminoyama section)
National Road 7 Modification of Oomiya intersection	·National Road 112 Hinode sidwalk	Major Regional Road: Yonezawa Takahata route (Takei section)
National Road 13 Elevation of Matsuoka intersection	·National Road 113 Akayu bypass (a section)	Major Regional Road: Mogamikishu route(Mukomachi section)
	·National Road 286 Widening at Teppomachi	Ordinary Prefectural Road: Higashinuma Naganuma Amarume route (Aoyama section)
•National Road 13 Modification of Wago intersection	•National Road 345 Modification of Izumicho intersection	Major Regional Road: Kandakawakuchi route(Mukai section)
•National Road 112 Teppomachi underground pedestrian crossing		-Urban Planning Road: Ishigakishioi route (Aioi section)
•National Road 112 Kamozaka bypass	•National Road 458 Hasedo bypass	Orban i lanning itoau. Isnigatishio Toute (Aloi Section)
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### 4.Regional Road Management Workshop

### **Regional Road Management Workshop is:**

- Annual workshop between planning division and regional road bureau (10 in total)
- Discuss strategies of road management in each region.
- Held in Feb. 2004 (the first time): will be held in each Feb. and Jun.





Presentations from next page are examples of discussion in this workshop. (These data are not for disclosure basically.)



### Overview of regional road traffic situation

## 全国の 1/3を占の 6父 週次 滞損失 (全国ワースト1)

#### 第 1章

政策目標の立案

政策分析の実施



プログラム決定



成果型予算配分

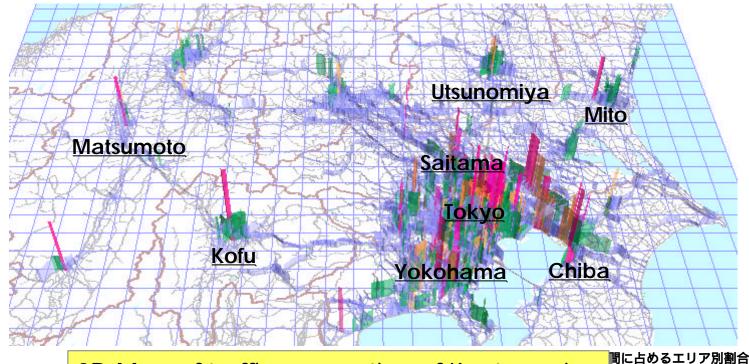


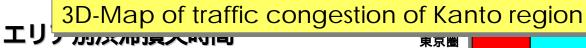
業績測定·評価



意識改革·広報

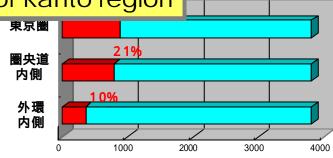
渋滞損失時間(全国3,810百万人時間 関東1,239百万人時間)





東京圏(1都3県) 881百万人時間

圈央道内側 外環内側 793**百万人時間** 355**百万人時間** 





## Overview of road traffic situation of Route 16 (Tokyo-Beltway:no-access-control)

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第 1章

政策目標の立案

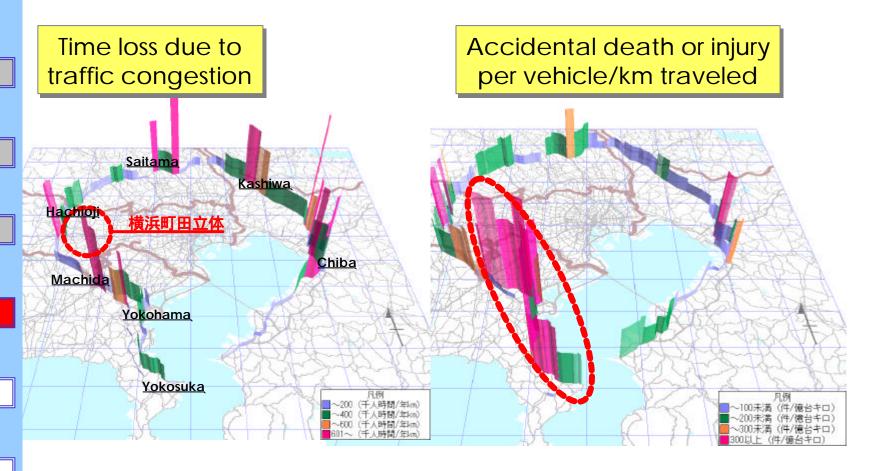
政策分析の実施

プログラム油定

成果型予算配分

業績測定·評価

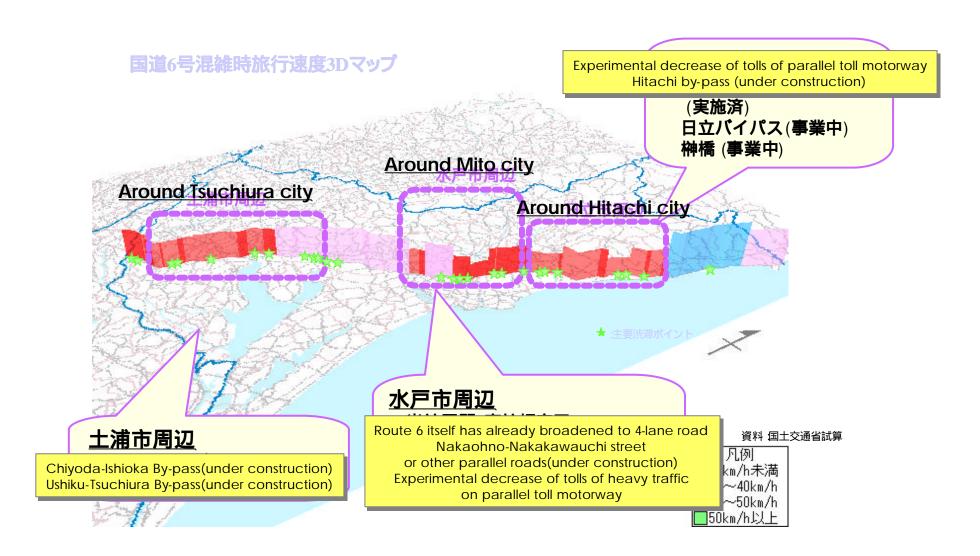
意識改革·広報





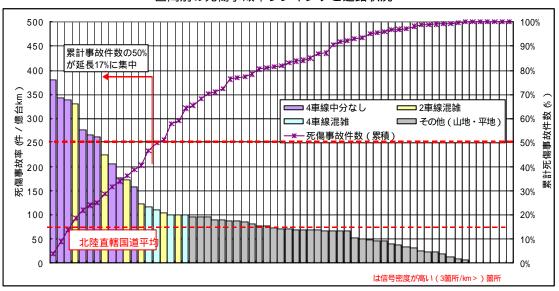
## Overview of road traffic situation and countermeasures of Route 6 in Ibaraki Prefecture

## 仕浦·水戸·日立の3市周辺において渋滞は発生)

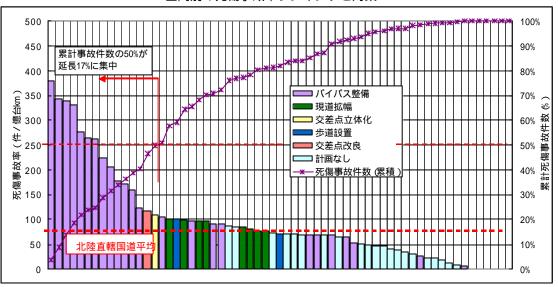


## List all legs of National Highway in Hokuriku region in order of probability of traffic accident

区間別の死傷事故率ランキングと道路状況

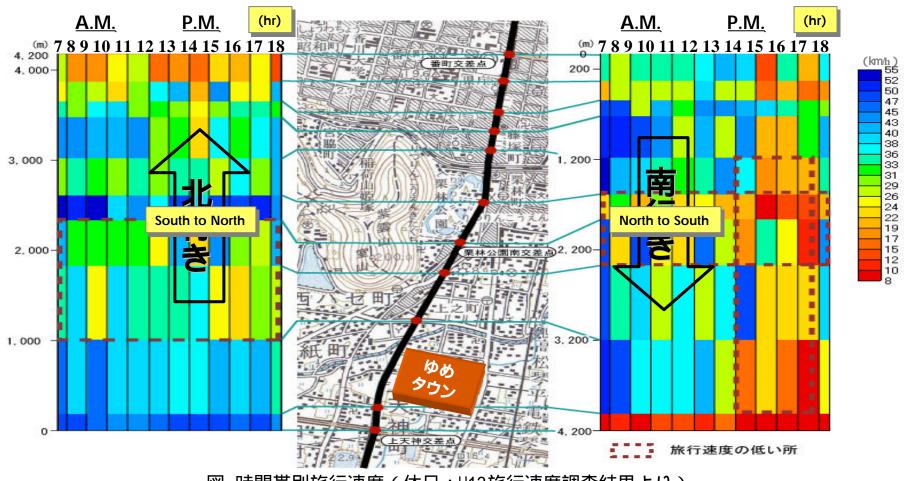


区間別の死傷事故率ランキングと対策



### Detailed analysis of individual leg 旅行速度の((Traffic speed on time-space diagram)

国道11号の南行き方向で、休日の午後に旅行速度低下が発生。 特に、高松南消防署東~上天神間では速度が10km/h以下。



時間帯別旅行速度(休日;H13旅行速度調査結果より)

## Management of each projects 九州( (Activity in Kyushu Regional Development Bureau)



### ~ 3つの意義~

Purpose of this activity

(1) To improve the efficiency of investment

投資効率の改善: 限られたお金でより大きな効果をより早く

執行管理の強化:目標の共有と意識の統一、自覚と責任 思い回工

説明責任の向上: '有言実行」による地域の信頼づくり

(2) To improve management of each project

(3) To improve accountability

### 九州の 5年で見える道づくり ちゃく2プロジェクト2003」

~ 選択と集中、無駄なくスピーディにサービス提供~

#### 事業の効率化

規格・構造等の見直し

スピードアップのための工夫

#### Step 1:

Make projects effective

- Redesign structures
- •Innovation for speedup etc...

### 「5年で見える道づくり」 対象事業の選定

#### 投資効果が高い

円滑な事業進捗の環境が整っている 選択と集中で5年以内の供用が可能

#### Step 2:

Select effective project

- High efficiency
- Favorable atmosphere
- Completable within 5 years

### 目標明示と事業進捗管理の徹底

1~5年後の供用目標と効果の明示

予算・体制の確保

毎年の執行目標の公表と進捗状況の確認

収用制度の適切な活用

#### Step 3:

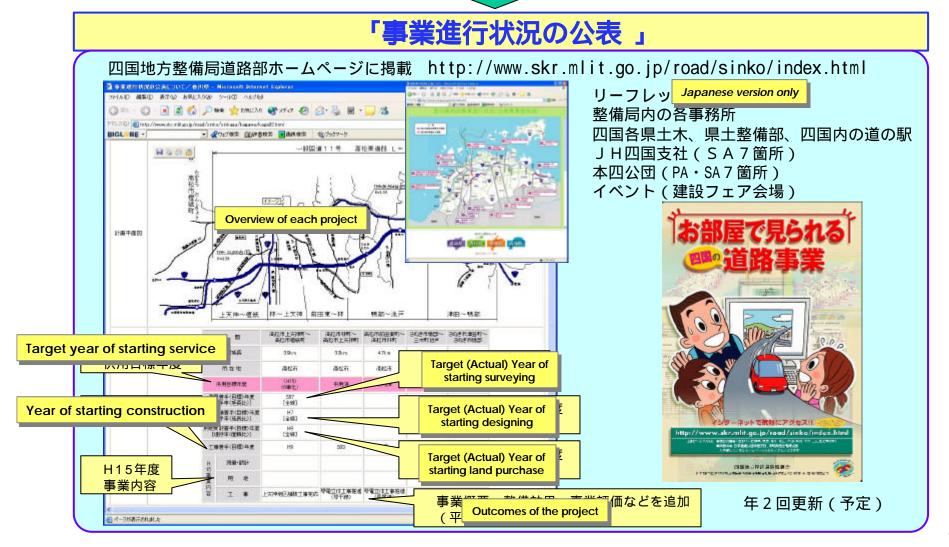
Announce target year and strict project management

- Announce target years to start services along with their outcomes
- Check and disclose progress annually

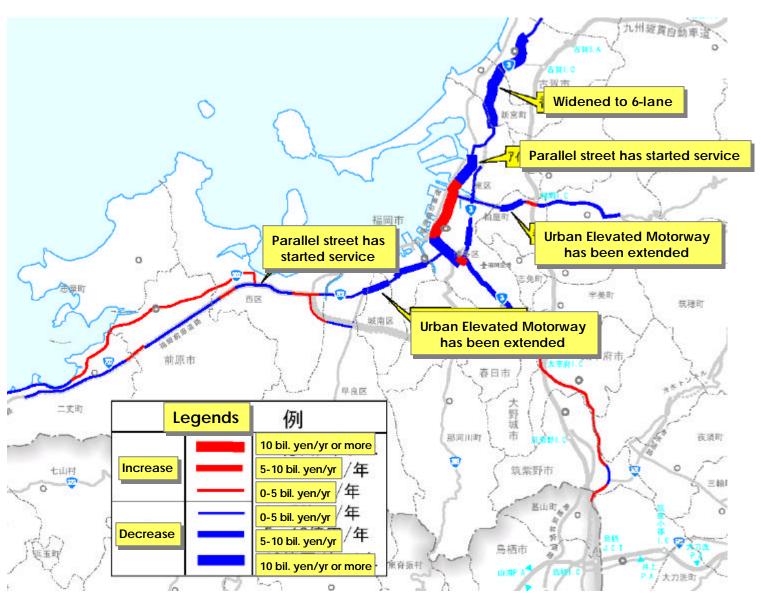


## Disclosure of plan and progress of each project through internet (Activity in Shikoku Regional Development Bureau)

- ・事業執行の透明性の向上
- ・地域との協働・連携(事業への理解と協力)



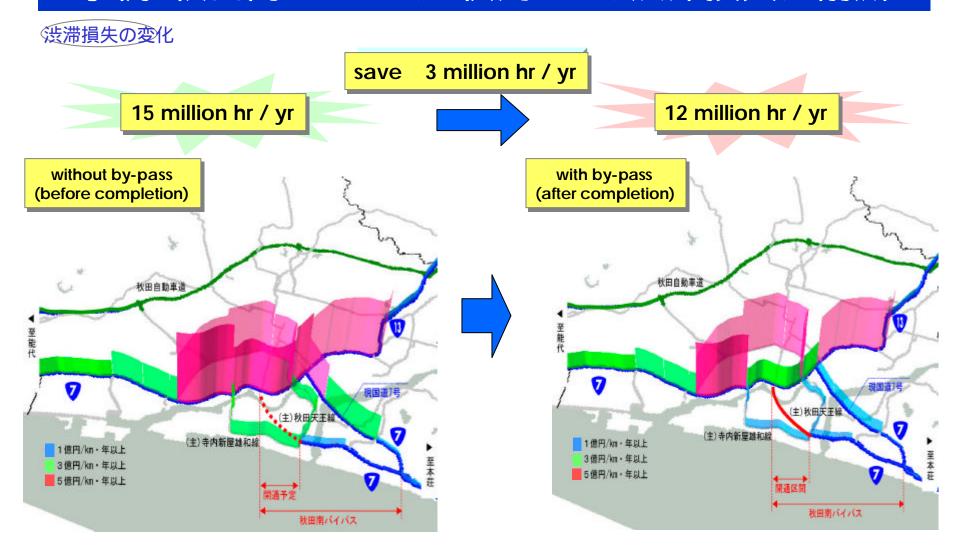
## Analyzing outcomes of each legs of Fukuoka urban area in Kyushu (changes of cost due to traffic congestion: 2003/2002)



## 事例

# Analyzing outcomes of each completed project (Akita-Minami By-pass in Tohoku region)

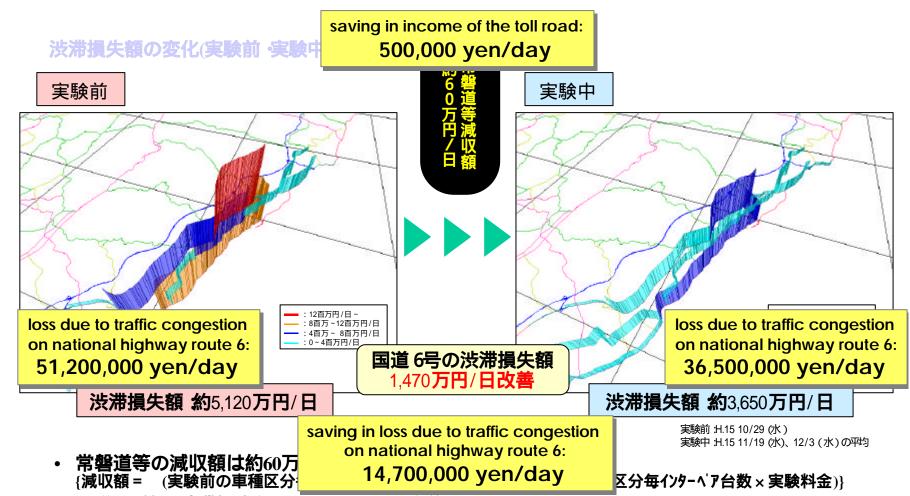
削減



## Analyzing outcomes of each completed project (Experimental decrease of Joban highway (toll road) in Kanto region)



### (常磐自動車道 料金割引社会実験 )



• 国道6号等の渋滞損失額は1,470万円/日 改善 常磐道等の減収を大幅に上回る一般道路の渋滞緩和効果