

Integrated Regional Development Planning as A Tool for Sustainable Cities and Regions: A Case Study in Toyota City, Central Japan

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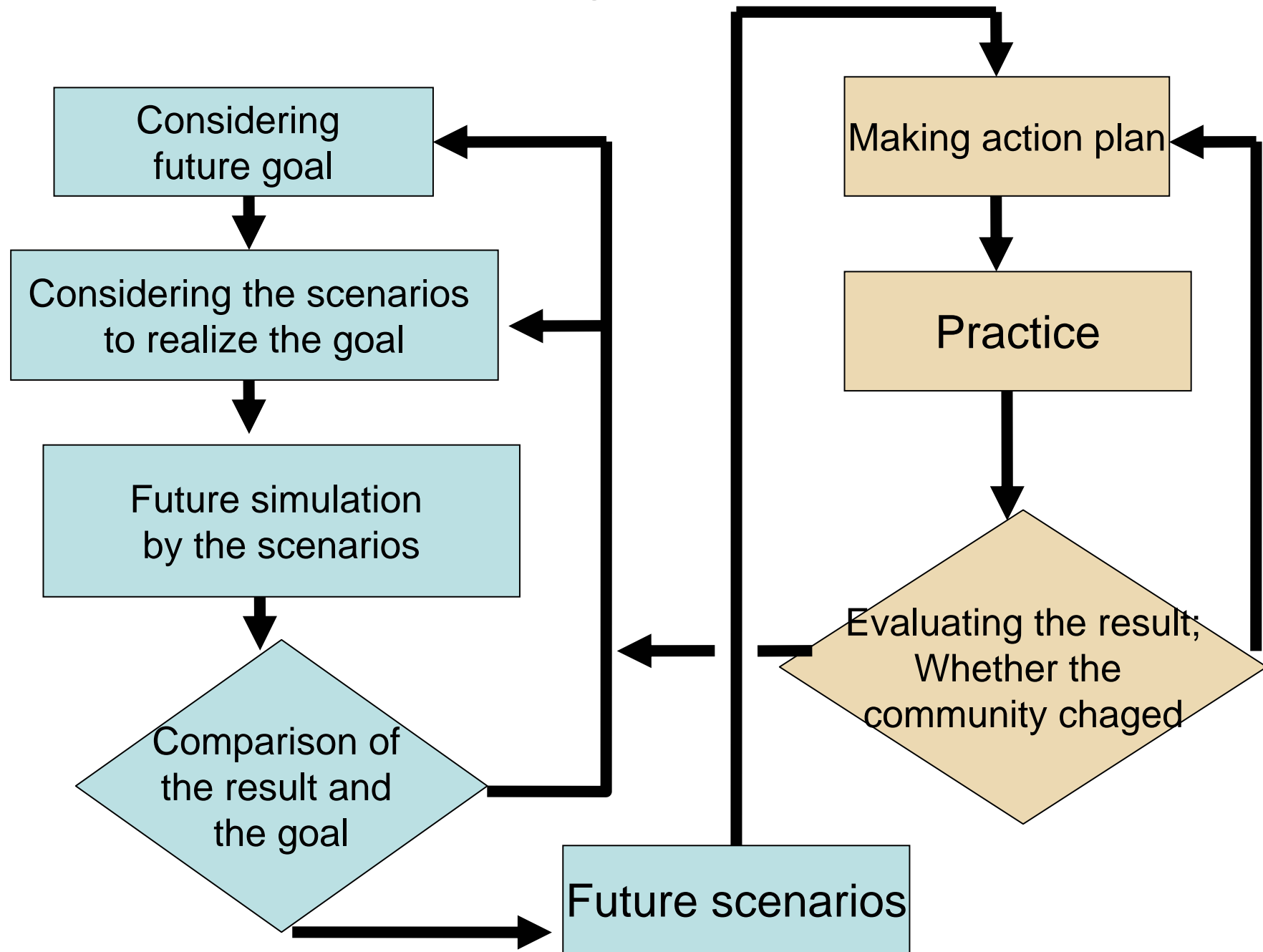
里山 SATOYAMA

What to be integrated?

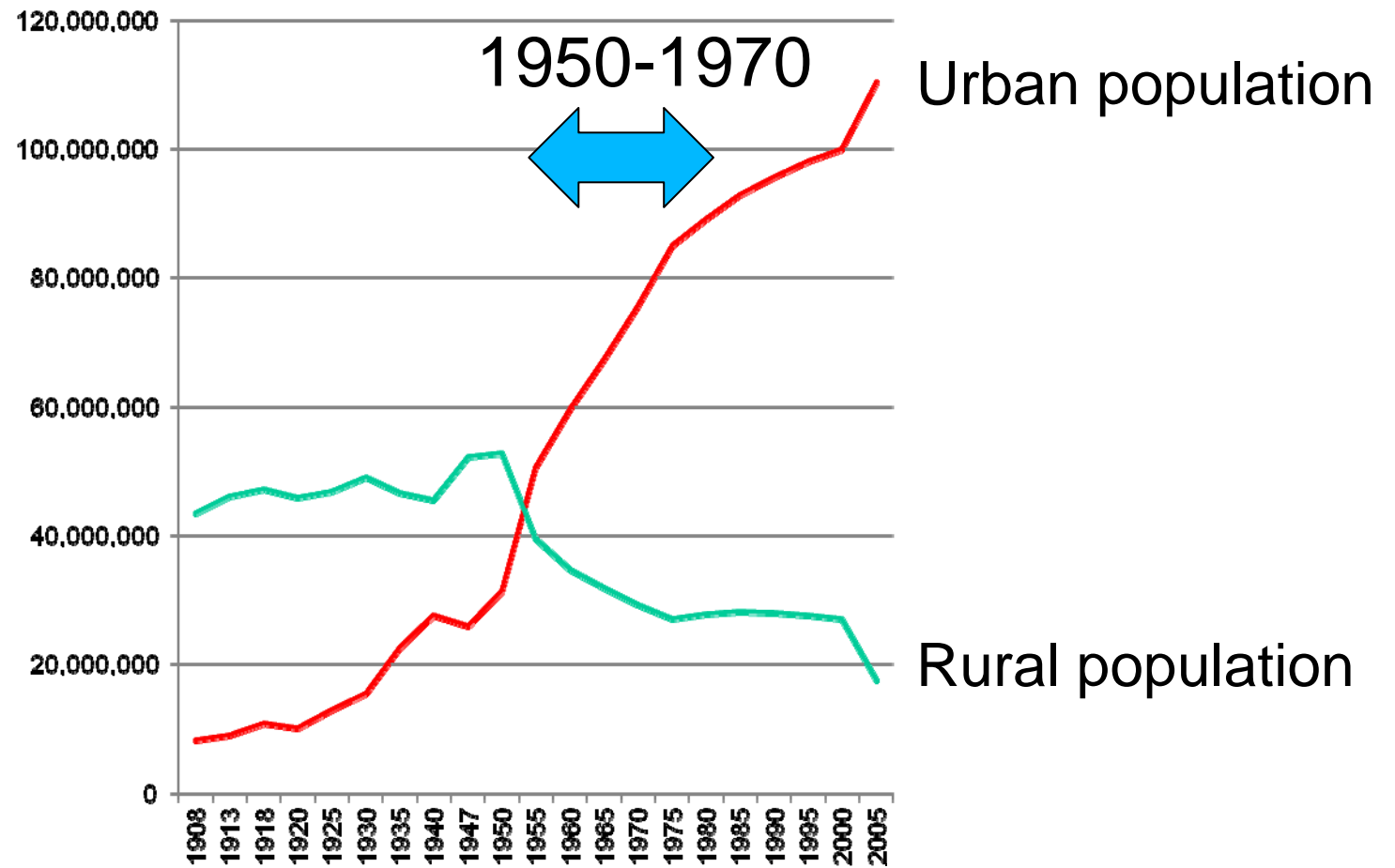
Integration of

- ◆ Field; land use, transportation, agriculture, forestry, energy, biodiversity, community empowerment, etc
- ◆ Area; urban and rural
- ◆ Participant; residents, NPOs, companies, government
- ◆ Process; planning, practice, evaluation

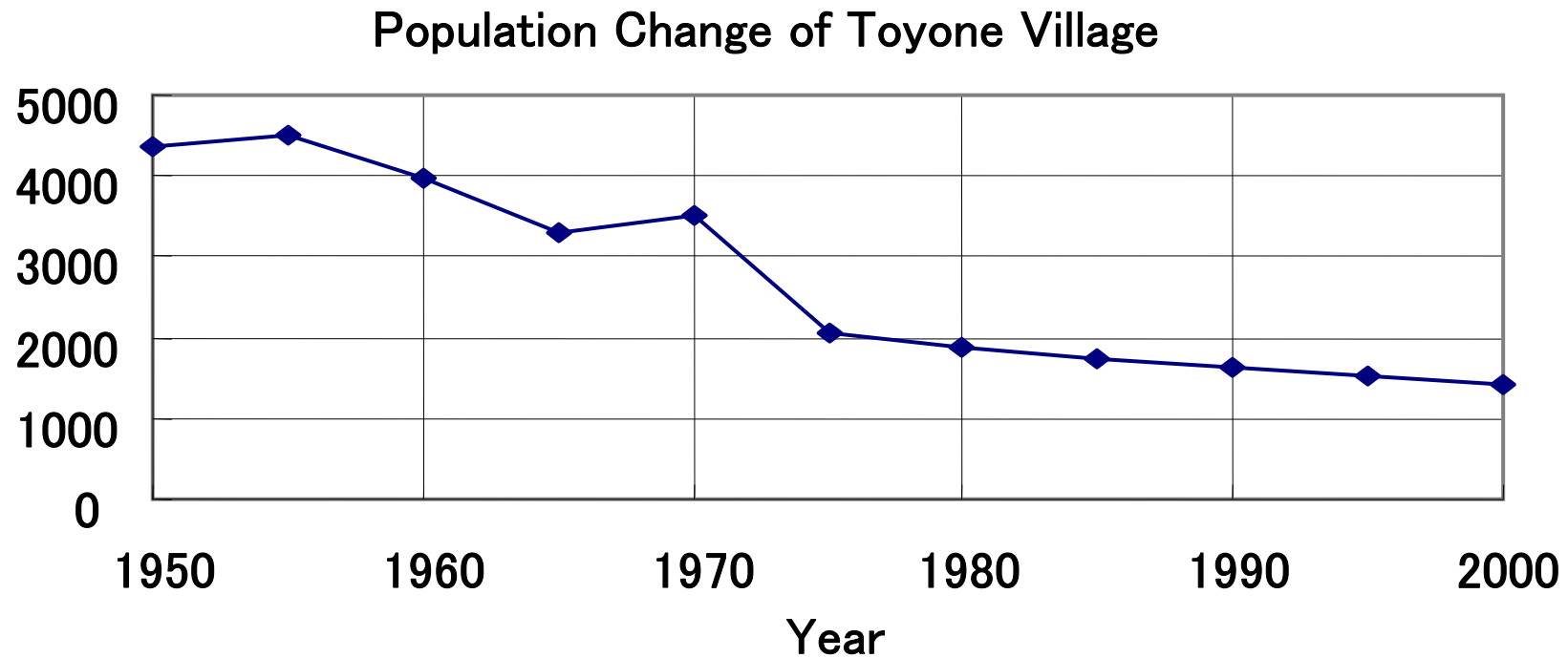
Feedback loop of planning and practice



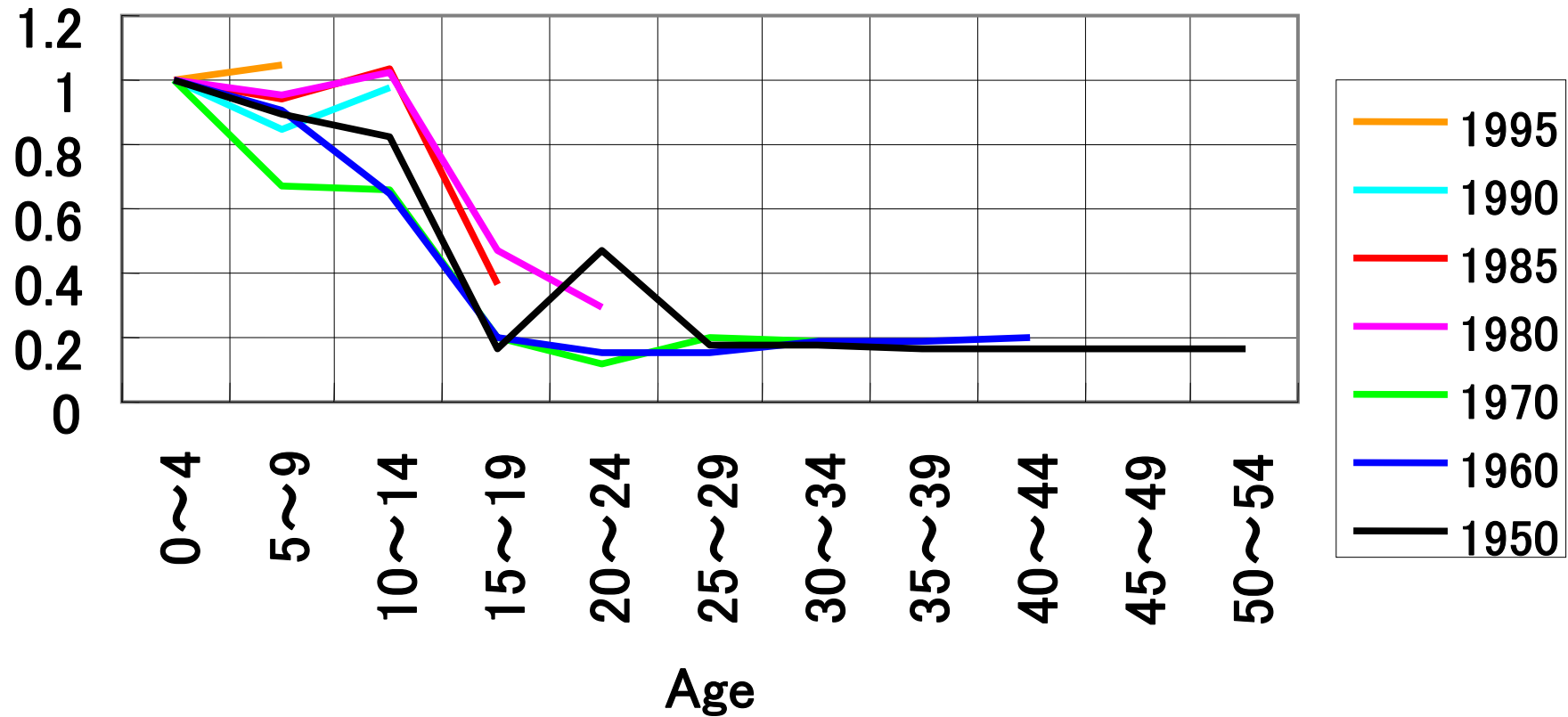
Population change of urban and rural area



Decreasing trend of the population in rural area



Change in the ratio of inhabitants with age



· The people who were born in the village goes out and only 20% comes back

Abandoned paddy field



Poorly managed artificial forest



Toyota City: Surrounding rural municipalities annexed in 2005



<矢作川と豊田市域>

Toyota City forest management plan for coming 100 years

http://www.city.toyota.aichi.jp/division/ag00/ag07/1193885_7136.html



〈東海豪雨直後の豊田市中心街〉

あと数10cm増水したら、右岸市街地側の堤防を越えたと
言われています。



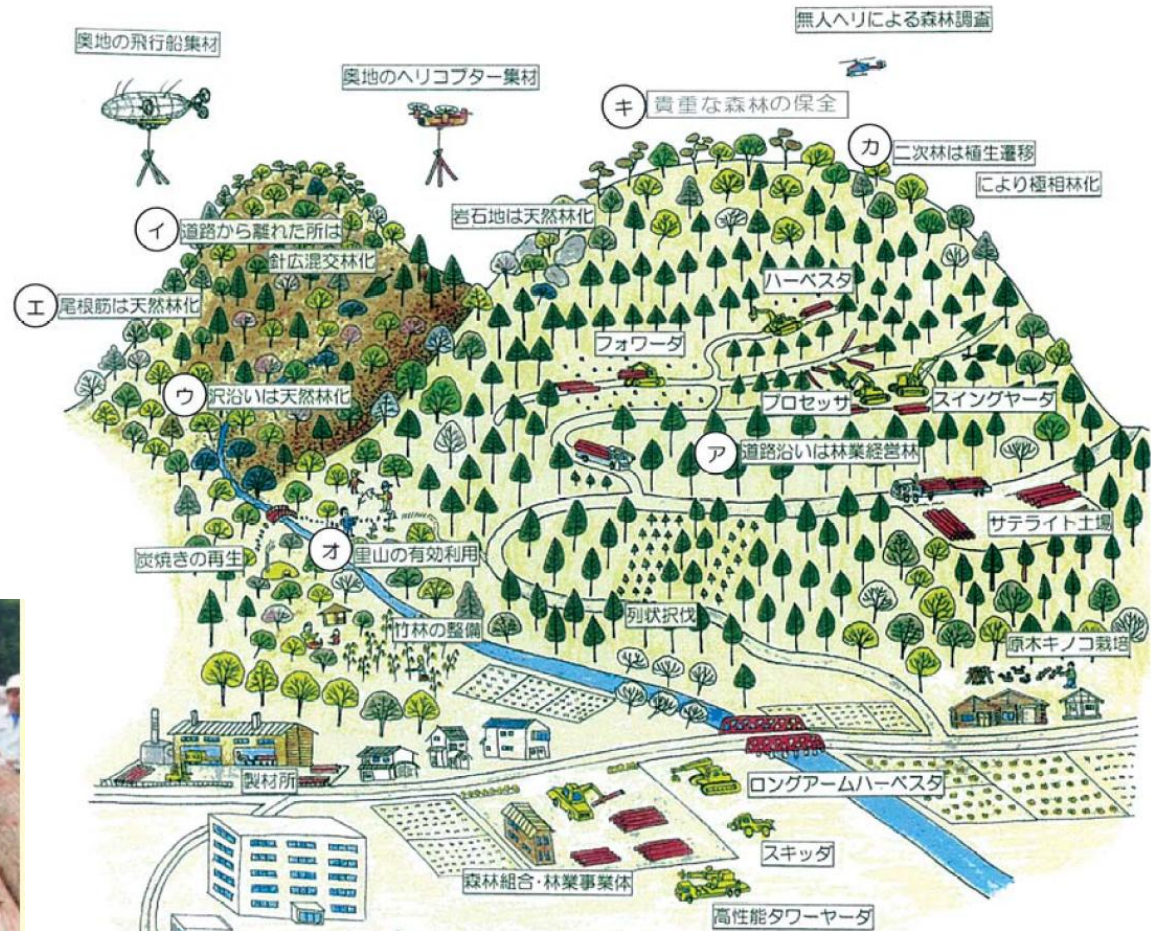
〈新しい植栽地における被害状況〉

矢作川上流域では、写真の岐阜県恵那市(旧上矢作町)を
始め、各所で山地崩壊が発生しました。



〈森づくり委員会の現地視察状況〉

〈近未来における豊田市の森林の姿〉





<間伐前>



<1回目間伐時>



<間伐後5~7年>



<2回目間伐時>



<2回目間伐後5~7年>
・下層植生 100%



<3回目間伐時>
・2回目間伐後 7~10年
・間伐率 30%程度
・残存本数 630本/ha



<3回目間伐後20年>
・天然植生は低木層まで
・下層植生 100%

1-2 針広混交林

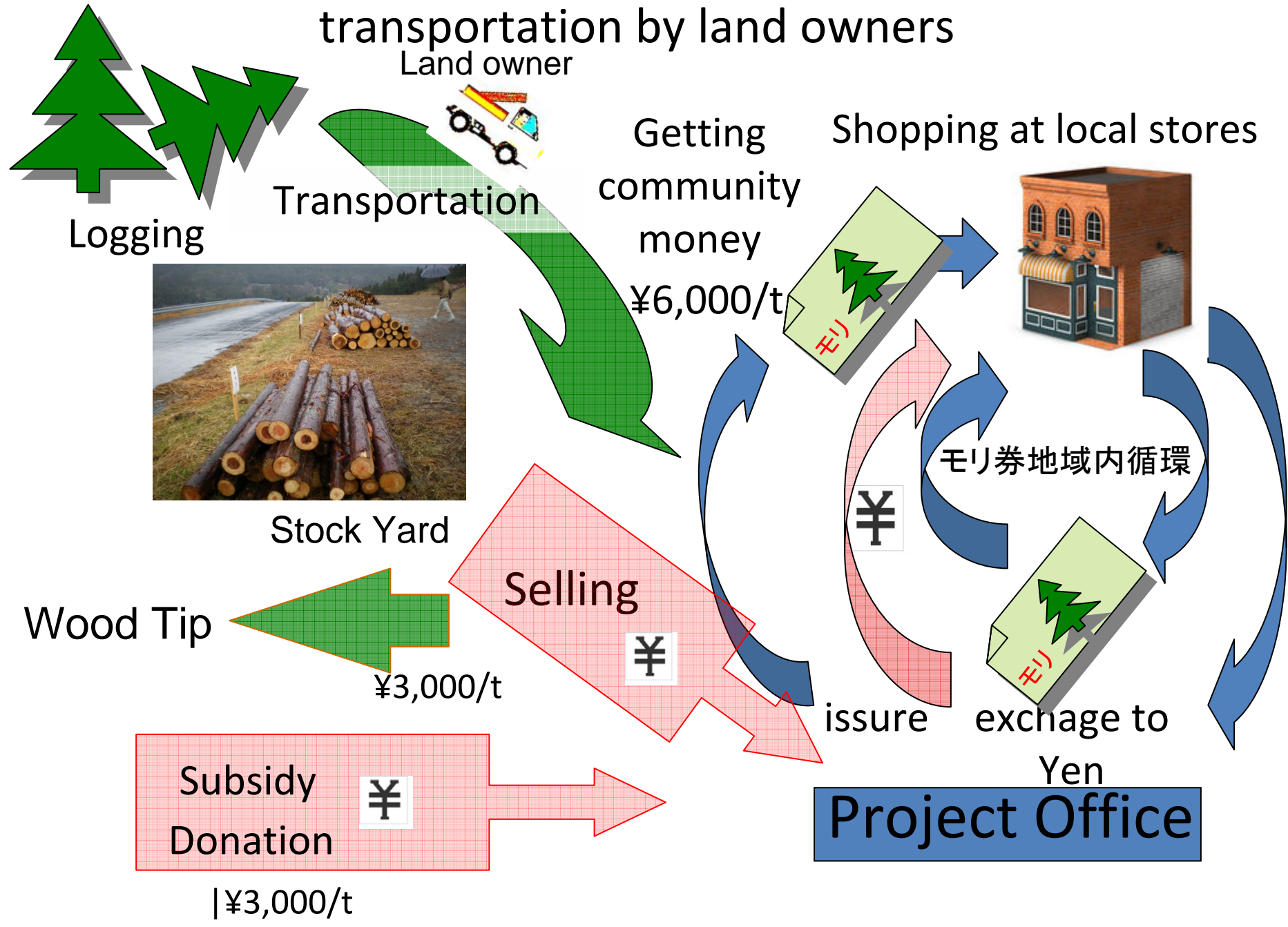


<高性能林業機械による作業>



<団地化説明会>

“Station of wood” project; Small scale logging and transportation by land owners





logging



movement



loading



Measurement of wood volume

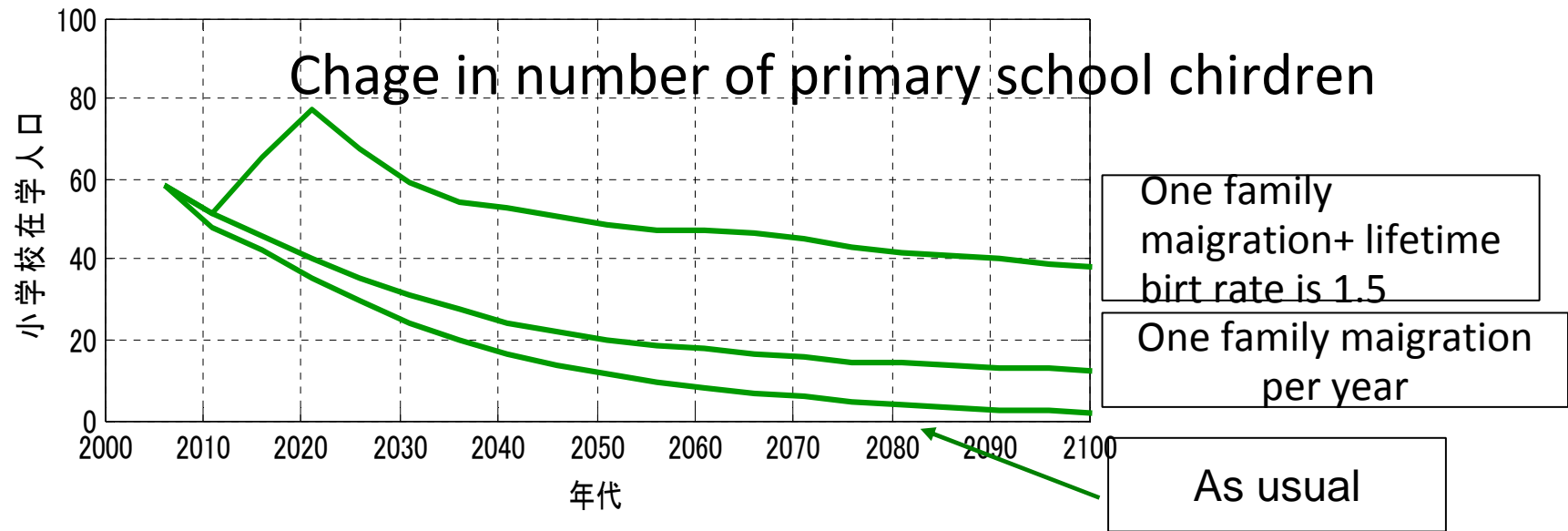
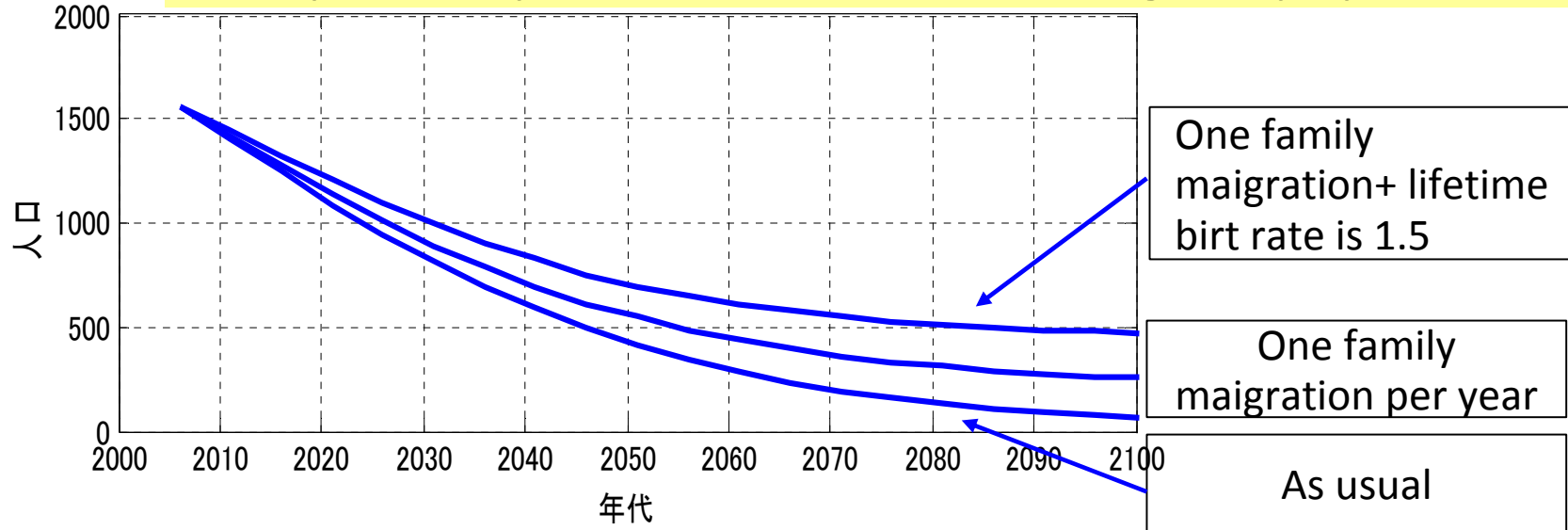


unloading





Odo-praimary school district: Change in population



Practice in Toyota city: Promoting exchange of people and migration from urban to rural

"Satoyama Koh" program
 Making a model of
 "eco-friendly and fashionable
 modern Satoyama lifestyle"



Exchange with urban people

旬裁食

畑作業は重労働の巻

5月10日の「旬裁食」は、田の代掻き、夏野菜の植え付け、春野菜の調理を行いました。

午前9時から田んぼと畑の2班に別れて作業を行いました。

田んぼの班は、トラクターで代掻きを行いました。

1日かけて作業を終え、来週の田植えに備えました。



畑の班は、夏野菜の植え付けを行うため、人力で畝作りを行いました。2日前に降った雨のため、土がとても重く、重労働になりました。

午後からは、夏野菜の苗の植え付けを行いました。



ほっ、とひと息 ～写真集～

準備体操で体をほくします



特設泥んこ遊び場ができました



真重な！？戦力也！



"Young people coming to rural" project: Employing 10 young people to live at vacant houses and to learn organic agriculture

Urban residents learning culture of rice



Sugeno-Sato

Challenge for life with
Renewable Energy 100%



Pico-hydro power



Biogas facility



Wood boiler

The information bank of vacant houses

窓口 豊田市役所 社会部 旭支所 地域振興担当

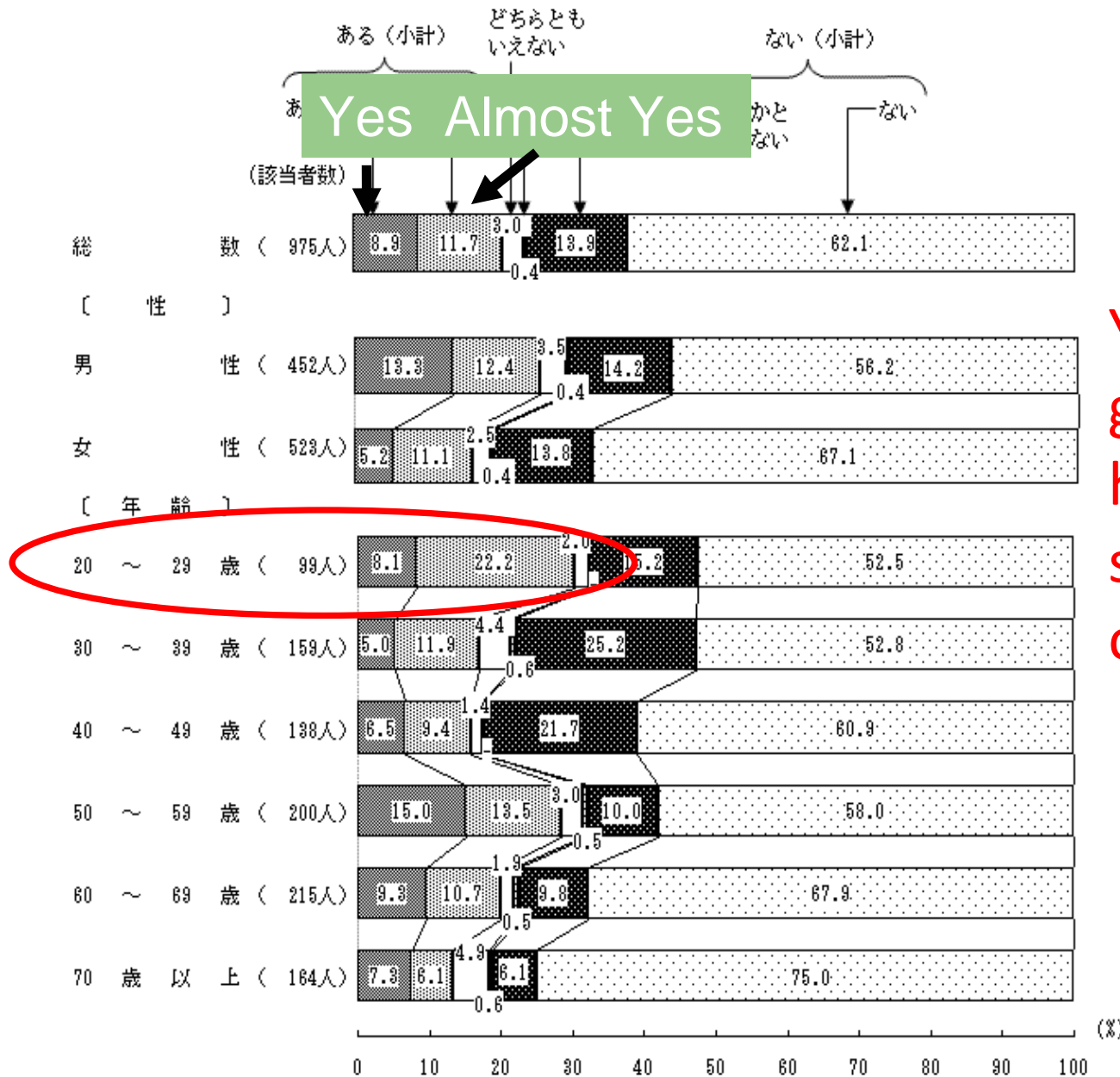
電話番号 0565-68-2211

メールアドレス asahi-shisho@city.toyota.aichi.jp

登録情報

物件No	写真	所在地	構造	賃貸/売却の種別	物件概要	地域情報	申込状況
旭-2		田津原町	木造平屋建	賃貸			成約済
旭-3		有間町	木造2階建	賃貸			成約済
旭-7		伊熊町	木造2階建	売却			成約済

Questionnaire to urban residents; Do you have a hope to migrate to rural area?



Young generation(20-29) hope to migrate stronger than other generaion



Sustainable development
with young people
migrated from urban area

Modern SATOYAMA lifestyle
* self-sufficiency of food and
energy
* getting small money by
providing goods and services
to urban people using
SATOYAMA resources





Why young people get interest in rural way of life?

- ◆ Apart from ecosystem, water and soil, spiritual situation will be degraded.

Rural communities provide safety-net for urban

- ◆ Goal of the development is enhancement of QOL of the people.

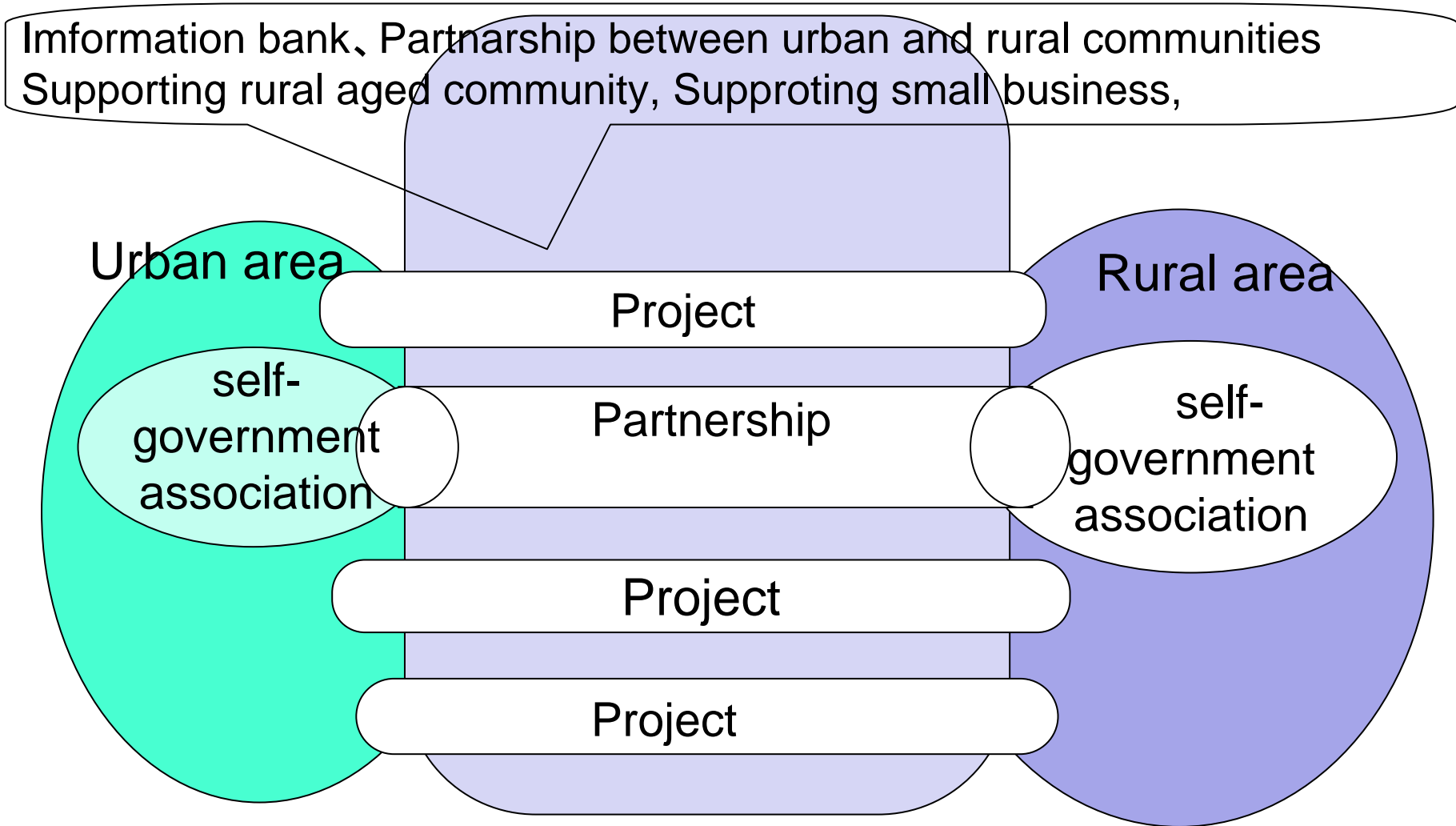
Which the QOL is

quality of just everyday life 生活

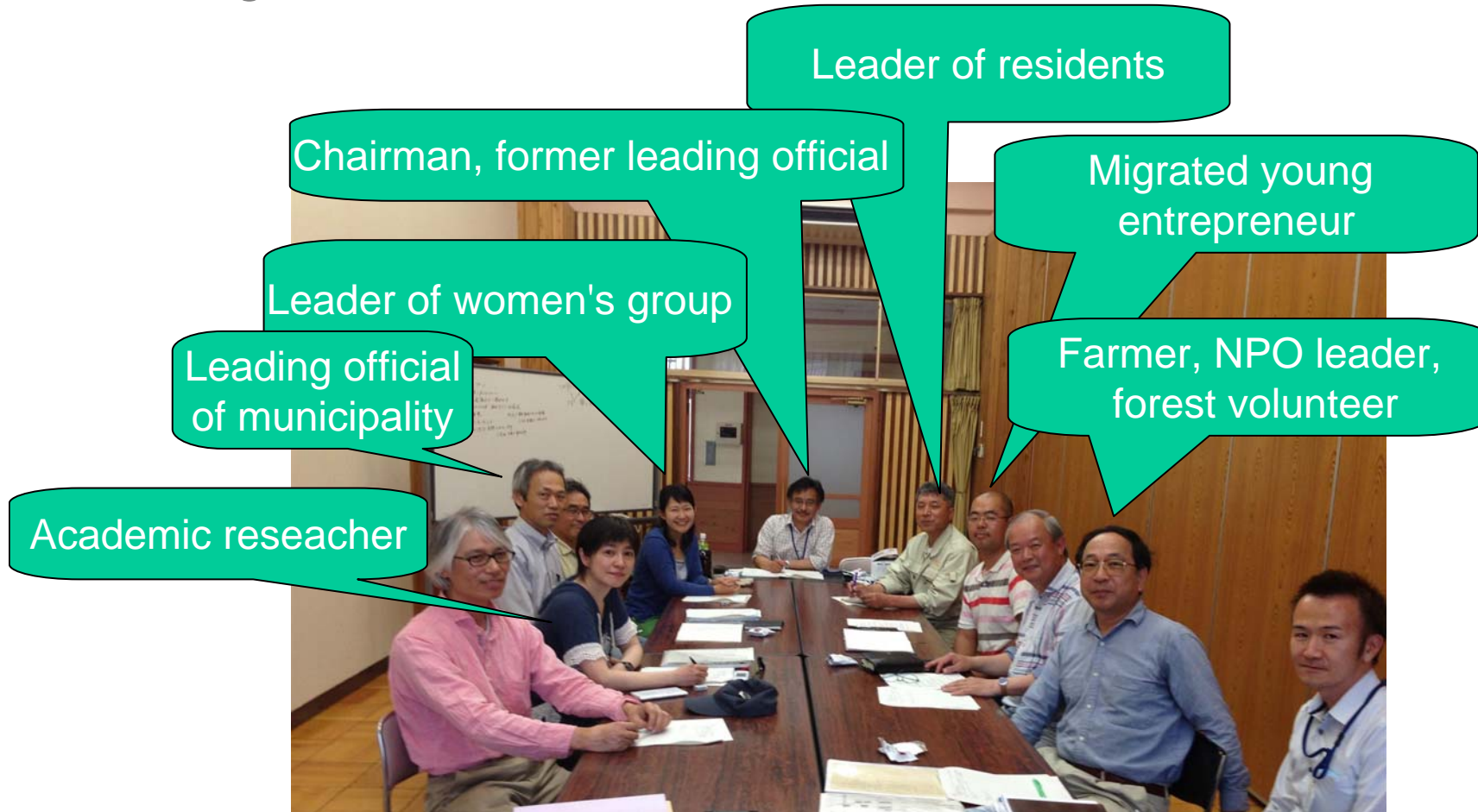
or quality of all one's life through 人生

- ◆ Some young people recognize the QOL 人生 of living in rural region is higher than urban

Toyota city "Welcome to village" center
will establish Aug. 2013 to coordinate the activity for
connecting urban and rural communities



Steering committee of the center



Integrated planning can be carried out by integrated group of the leaders of various fields

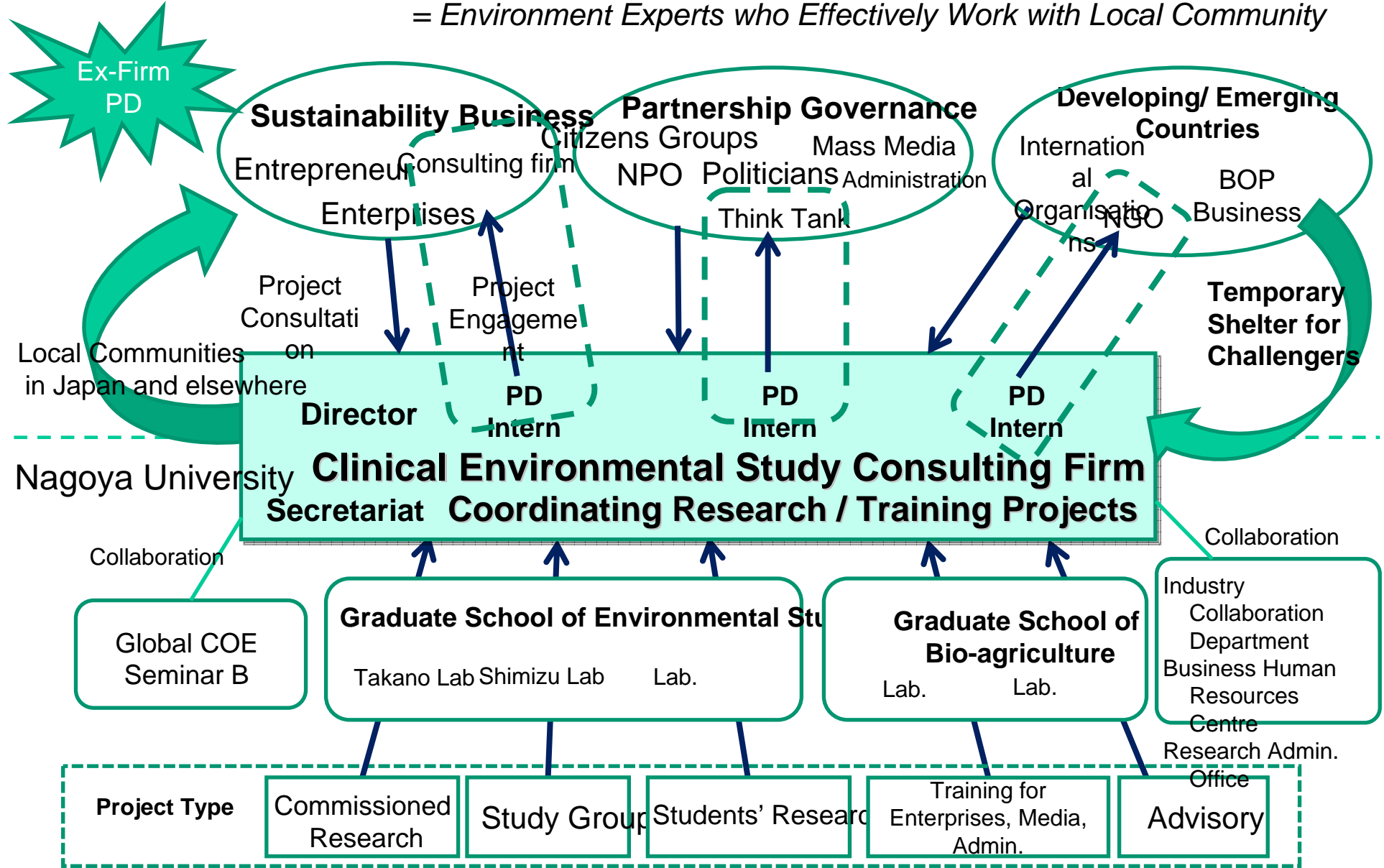
Suggestions for integrated regional planning as a tool of sustainable development

- ◆ Promoting self-government of the residents
- ◆ Discovering good practices from grassroots
- ◆ Encouraging key-parsons; the Driving Actors
- ◆ Sharing the mission: organizing voluntary group of the Driving Actors of various fields in cooperation with local government

Clinical Environmental Study Consulting Firm

Post-Firm Career Path

*Capable PhD X Facilitation Capacity Development
= Environment Experts who Effectively Work with Local Community*



Thank you for your attention

