

2630 Ogaki kita

FROM QUANTITY TO QUALITY
—STUDYING CURRENTLY NEEDED DEVELOPMENT—

GIFU PREFECTURAL OGAKI-KITA HIGH SCHOOL
 HAYATO YAMAMO

CONDITION IN VIETNAM & CAMBODIA
 (WATER POLLUTION)

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HOW CAMBODIA CAN DEVELOP SUSTAINABLY
HOW TO REALIZE SDGS GOAL9

RESEARCH QUESTION

RQ1 WHAT IS THE CURRENT PROBLEM?

RQ2 WHY HAS THE PROBLEM HAPPENED?

RQ3 HOW CAN WE SOLVE THE PROBLEM?

RQ1 CURRENT PROBLEM

Organic Water Pollution

COMPARISON BY BIOCHEMICAL OXYGEN DEMAND

| Year | Vietnam (Ho Chi Minh-Saigon) | Cambodia (Phnom Penh-Mekong) |
|------|------------------------------|------------------------------|
| 2008 | ~2.5 | ~1.5 |
| 2009 | ~3.0 | ~1.5 |
| 2010 | ~3.5 | ~1.5 |
| 2011 | ~4.0 | ~1.5 |
| 2012 | ~4.5 | ~1.5 |
| 2013 | ~5.0 | ~1.5 |
| 2014 | ~5.5 | ~1.5 |
| 2015 | ~6.0 | ~1.5 |
| 2016 | ~6.5 | ~1.5 |
| 2017 | ~7.0 | ~1.5 |
| 2018 | ~7.5 | ~1.5 |

RQ2 CAUSE

- 1-NOT HAVING ENOUGH WATER TREATMENT FACILITIES**
- 2 LOW WATER PURIFICATION STANDARDS**
- 3 ILLEGALLY DRAINING WASTE WATER**

ECONOMIC OUTPUT
 Business expansion
 Profit increase
 Cost reduction

TRADE-OFF

HEALTH CARE
ENVIRONMENTAL PROTECTION

RQ3 SOLUTION

- 1-TO MAKE INDUSTRIAL AREAS**
- 2 TO INVITE ADVANCED COMPANIES**
- 3 TO MAKE LAWS**

CONCLUSION

COOPERATION BETWEEN COMPANIES

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TO IMPROVE THE ENVIRONMENT
 (WITH GOVERNMENT SUPPORT)

QUANTITY → QUALITY