## 建設分野におけるダイオキシン類汚染土壌対策・廃棄物発生抑制技術の開発(新規)

Research and Technological Development for the Prevention of Dioxin Contamination and the Waste Reduction in the Construction Industry (New)

近年、わが国では、極微量でも高い毒性を持つといわれているダイオキシンによる土壌汚染が大きな社会問題となっており、建設事業においても、工事実施段階でダイオキシンに汚染された地盤に遭遇する場合が想定される。

一方、木造建築物の解体除却時に発生 する廃棄物量は年々増加する傾向にあ り、木造建築物における再資源化と資源 循環化を促し、建築活動そのものから発 生する廃棄物量を抑制する新しい技術と 仕組みに対する社会的な要望が強い。

本プロジェクトでは、地盤・河川水質・底質などにおける、ダイオキシンの調査分析手法の検討を行い、汚染経路の遮断・二次汚染拡散防止対策技術の開

発、ダイオキシン対応マニュアルの作成 を行う。また、木造住宅等の解体除却時 における廃棄物発生抑制について、設 計・計画段階で配慮した木造構工法の開 発、技術指針、設計施工マニュアル等の 作成を行う。

In recent years in Japan, soil contamination by dioxin, which is highly toxic even in infinitesimal amounts, has become a serious social problem. In the construction projects, it must be taken account for to encounter contaminated sites by dioxin under construction.

The volume of the waste generated in the process of dismantling wooden buildings is increasing yearly. It is quite necessary to promote the recycle and re-use of the resources consumed in the process of building wooden structures. And new systems and technologies that enable the reduction of the volume of the waste generated in the building activities are also strongly required.

This project deals with the appropriate methods for the examination and analysis of dioxin in the construction projects, for example ground, river water, and river beds. It will develop technology for the prevention of the secondary contamination expanse during construction work, for example intercepting the path of contamination. Finally, the project proposes the manual in case of encountering dioxin. On the other hand to reduce the waste products in the process of dismantling wooden buildings, the project will develop new construction methods, formulate technical guidelines and compile design and building manuals.

#### 汚染土壌対策、廃棄物発生抑制技術の開発

Measures for soil pollution and development of technology for curbing waste

#### 調査モニタリング技術の研究

河川・土壌のモニタリング

簡易なサンプリング・分析手法開発

#### 汚染土壌原位置処理工法に関する研究

汚染の程度や態様

汚染地域の土地利用形態 原位置処理工法の開発

#### 廃棄物発生抑制型木造構工法の開発

低環境負荷型建築材料部材の開発

資源循環型木造構工法の開発 除却抑制型木造構工法の開発

#### 建築材料部材の再資源化技術の開発

再資源化技術の開発

建築材料部材の合理的再利用システムの開発

#### 再資源化及び資源循環化技術の普及システムの開発

普及阻害要因の分析

再資源化・資源循環化技術の普及システムの開発

### Research on survey monitoring techniques River and soil monitoring

Development of simple sampling and analysis methodologies

#### Research on construction methods to deal with

the original source of soil pollution

State and degree of pollution
State of land use of polluted area

Development of construction methods to deal w

Development of construction methods to deal with the original source

# . Development of design and construction methods to reduce the waste products in the wooden buildings activities

Development of low environmental impact building materials and components Development of design and construction methods for recyclable wooden buildings Development of design and construction methods for sustainable wooden buildings

### . Development of recycling technologies for building materials and components

Development of recycling technologies Development of re-use systems for building materials and components

## Development of dissemination system to disseminate the developed technologies

Analysis of factors inhibiting dissemination Development of dissemination system to disseminate the developed technologies

建設事業に対応できるダイオキシンの簡易な検出・分析 手法の確立

汚染態様に応じたダイオキシン対策工法の確立 建設事業におけるダイオキシン対策指針の作成 廃棄物発生抑制に配慮した木造構工法の設計・施工技 術の確立

建築材料部材の合理的再資源化システムの確立技術普及基盤の確立

Establishment of simple dioxin detection and analysis methods that can be adapted to the construction business

Establishment of preventative construction methods appropriate for the nature of the dioxin

contamination

Creation of guidelines for the construction business
for the prevention of dioxin contamination

Establishment of design and construction
technologies to build wooden buildings designed with

the concept of waste reduction
Establishment of recycling system for building

materials and components
Establishment of systems for disseminating technologies

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