

5. Information Service

(1) CORINS/TECRIS

Construction and Technical Consulting Record Information

What's CORINS/TECRIS?

CORINS/TECRIS is a unique information service that provides data on achievement of public construction projects all over Japan.

CORINS provides records of construction project and TECRIS provide records of technical consultation, land survey, eminent domain consultation.

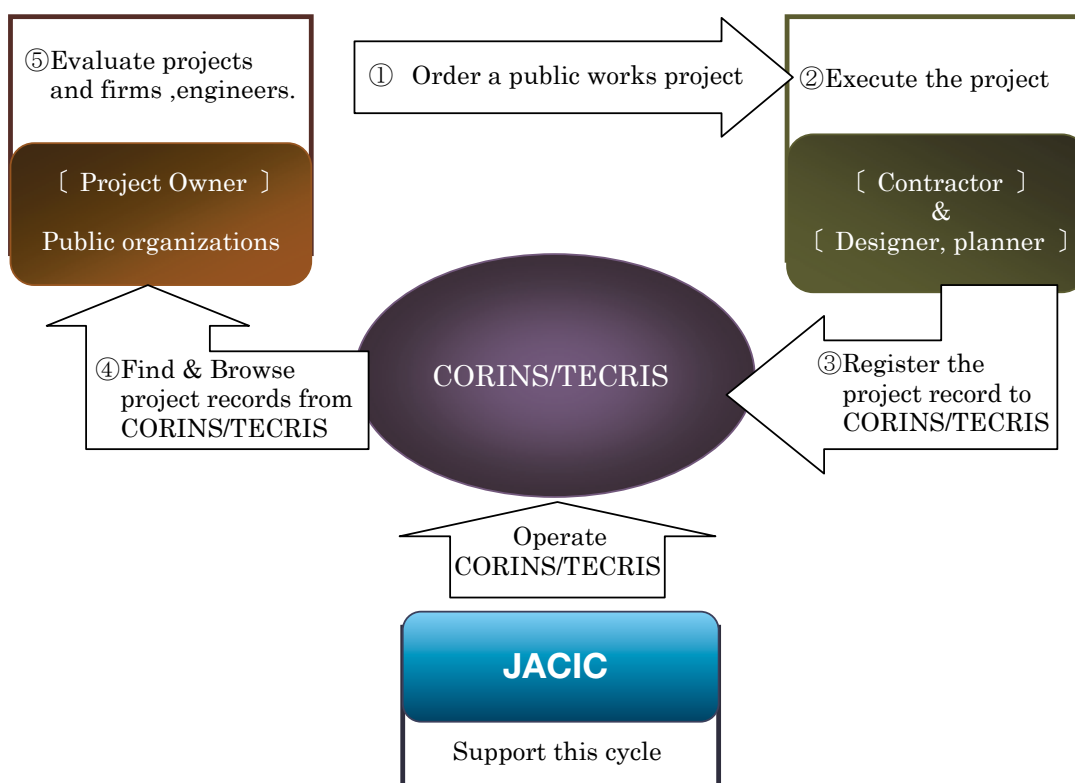
For evaluating projects and firm

As many countries' issue, public construction works must have enough quality with fair procedure. Consequently administrative organizations are expected to have highly responsibility for the public investment of construction works with transparency, objectiveness and fairness in their procedure.

In JAPAN there had been social requirement on prevention of misbehaviors in tendering and contracting process for public construction works at the beginning of 1990s.

CORINS/TECRIS is an information service with its nationwide past and present records of project for this purpose of these public considerations that require comprehensive information for evaluating construction projects and firms relatively.

Business Model



[Registration phase]

- ① Public organizations order a public works project.
- ② Firms related construction execute the project.
- ③ Firms related construction register the project record to CORINS/TECRIS.

[Evaluation phase]

- ④ Public organizations can find & browse project records from CORINS/TECRIS with many conditions.
- ⑤ Public organizations can make a new project and evaluate qualification of firms and engineers by using past project records.

JACIC support this public acquisition cycle by operating CORINS/TECRIS.

Our Business Scale

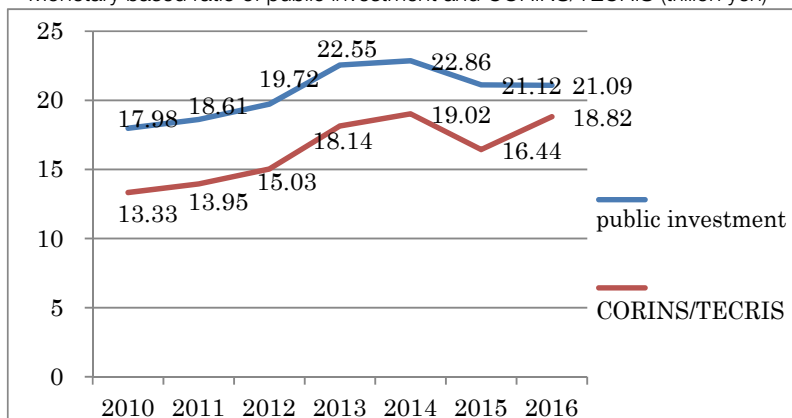
CORINS/TECRIS has started in 1994 requested by the former Ministry of Construction (currently the Ministry of Land, Infrastructure, Transport and Tourism) for the necessity of past experience record database which all the public works project contractors can access to and properly evaluate technical capability of contractors.

Now, CORINS/TECRIS covers 80% of investment for construction in JAPAN as the monetary based ratio of public and it is estimated to be 20.6 trillion yen.

CORINS provides more than 4.2 million records of construction works and about 144,000 firms and is used by nearly one thousand of public organizations.

TECRIS provides more than 1.4 million records of projects registered by about 13,000 firms and is used by nearly 5 hundred organizations.

Monetary based ratio of public investment and CORINS/TECRIS (trillion yen)



* Over 90% of all JAPAN !!

Amount of registered data (as of Mar, 2017)

Type of data	CORINS	TECRIS
Public works project records	4,480,000	1,740,000
Construction related Firms	150,000	15,000
Engineers	1,760,000	

Amount of public organization (as of Mar, 2017)

Type of Organization	CORINS	TECRIS
National governments	26	24
National institutes	65	8
Local governments	851	649
Others	27	24

* JAPAN has about 1800 local government

History

	Our Business	Social demand
1993		"Reform of Public Works procurement process" was proposed from the Central Council on Construction Industry.
1994	Started CORINS to be registered construction project of which price is more than ¥50million.	Former Ministry of Construction, Prefectures and Mega cities started to register their projects in CORINS.
1995	Started TECRIS to be registered Engineering consulting project of which price is more than ¥5million.	
2009	Redesigned CORINS/TECRIS as web based information service.	

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Data Items

CORINS/TECRIS has a lot of data items. Following data items are representatives.

- Project - Subject, Project Owner, Term, Cost, Place
- Contractor - Company's Name, License Number for Construction Business, Address
- Engineer -Name, Role, Qualification, Engaged Term
- Technical detail (CORINS) - Method, Specification
- Technical detail (TECRIS) - Domain, Phase

To find whole data items, see below

- <http://ct.jacic.or.jp/corporation/know/xml/file/c02x01.xls>
- <http://ct.jacic.or.jp/corporation/know/xml/file/t02x01.xls>

(2) Procurement Information Business and E-Bidding System

Integrated Public-works Procurement Information Service (i-PPI)

JACIC is hosting a portal site that integrates ordering information that each procuring entities to publish. This service is intended to enable the post bid information of procuring entities of many kinds of scale of the organization. "Prospect of Works", "Tendering Open" and "Progress and Result of Bidding", the user can search across the procuring entities.

Registered Organizations of i-PPI

- 4 national ministries
- 1 prefectures and 14 municipalities
- 1 ordinance-designated mega-cities



Electronic Bid Support Center

In order to support smooth implementation of electronic bidding, JACIC established the Electronic Bid Support Center (e-BISC) in April, 2001, and has offered "System user support".

Electronic Bid Support Service



Electronic Bidding Core System (EBCS)

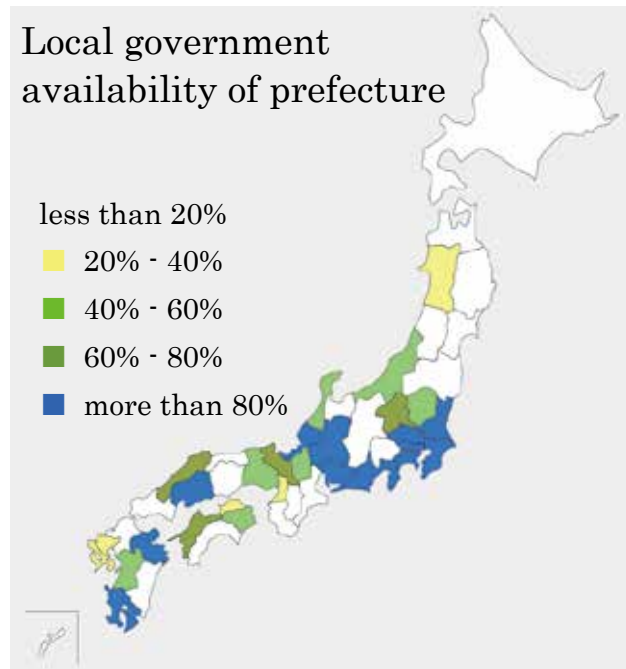
E-Bidding Core System (EBCS)

JACIC has developed Electronic Bidding Core System (EBCS) aiming at standardization of the electronic bidding system. The number of the adoption groups is as follows.

- 5 national ministries
- 20 public corporations / organizations
- 47 prefectures (100%)
- 20 ordinance-designated mega-cities
- approx.700 municipalities (including share-use)
- TOTAL : approx. 800 Organizations

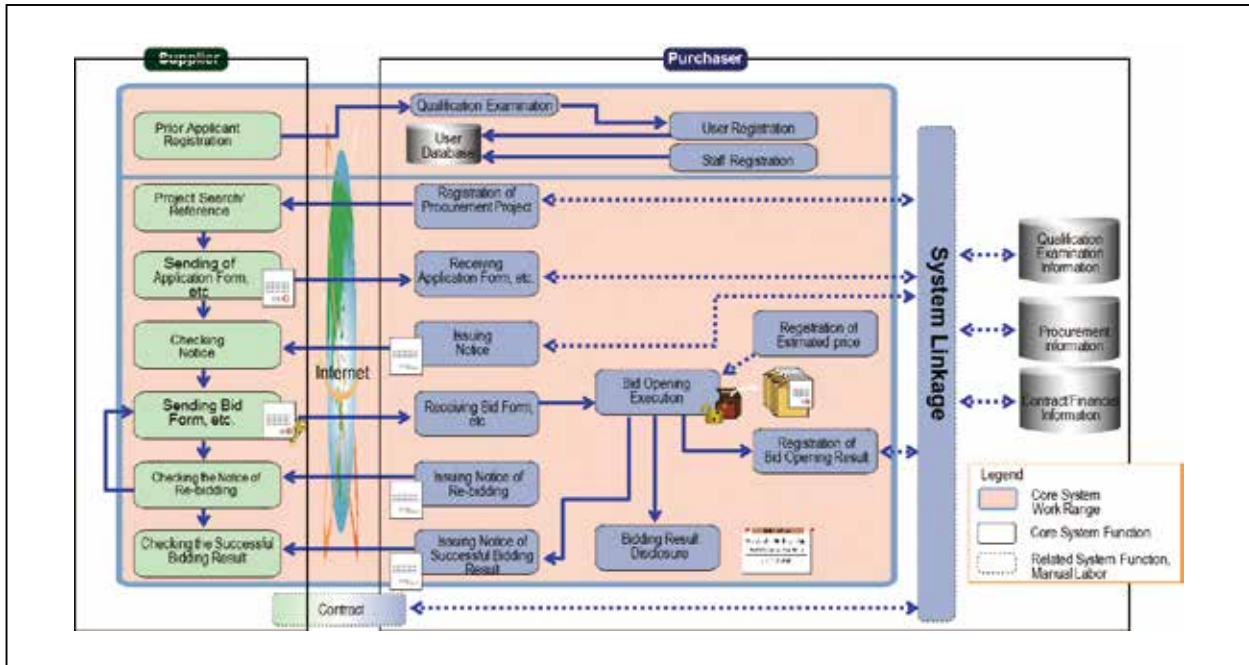
Local government availability of prefecture

- less than 20%
- 20% - 40%
- 40% - 60%
- 60% - 80%
- more than 80%



Work Range of EBCS

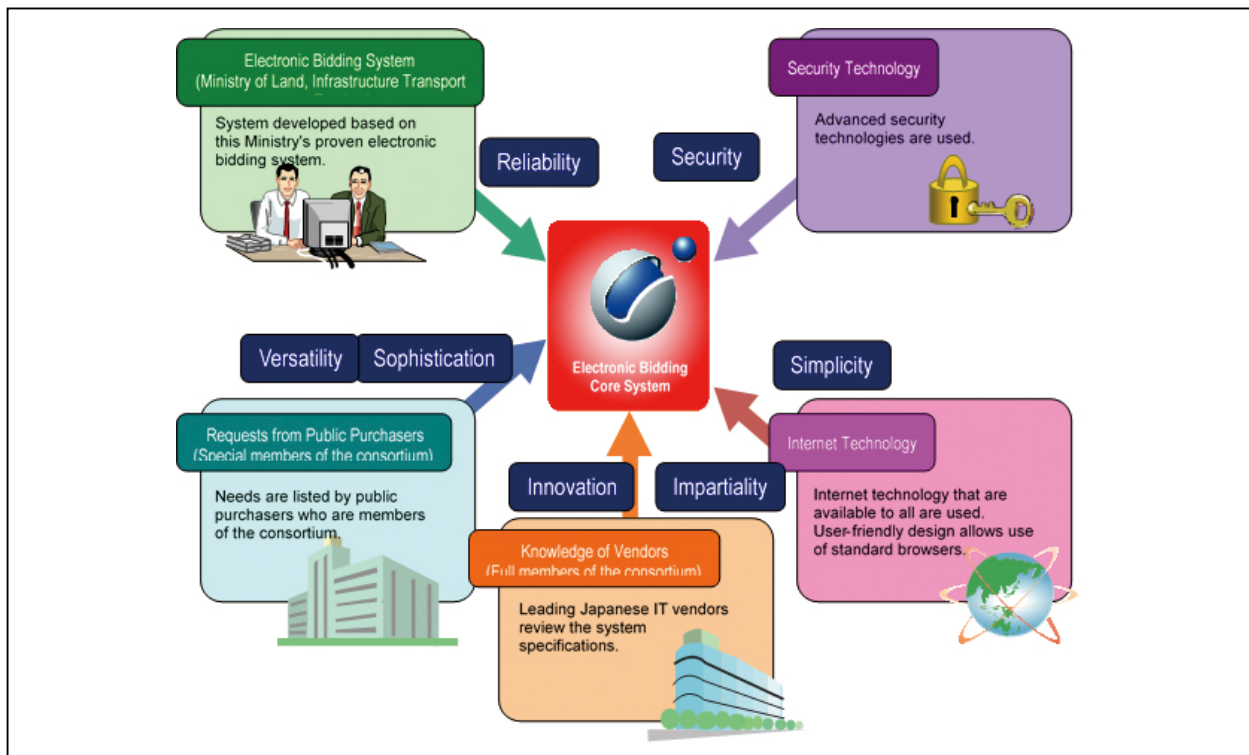
The EBCS supports a series of procedures from registration of bidding projects to disclosure of bidding results.



Features of EBCS

The EBCS is a highly reliable system since it has been developed based on the proven electronic bidding system of the Ministry of Land, Infrastructure Transport and Tourism.

The EBCS is also highly flexible. This is because the results of a survey on bidding-related business and opinions (business needs) from special members of the consortium were reflected when the system specifications were established.



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(3) Cost Estimation System

Cost Estimation System of Public works

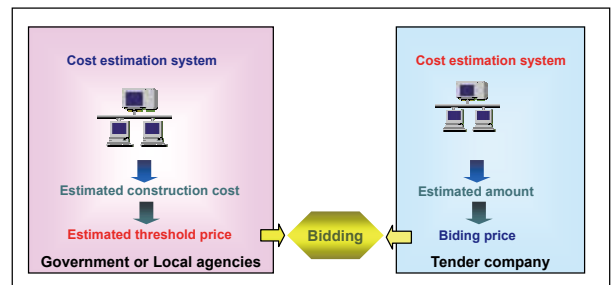
Role of an estimated threshold price of public construction contract

In Japan, when government and local agencies order public works, the contract officials must set estimated threshold prices, which are the upper or lower limit of the bidding price for each project, in accordance to check Public Accounting Act for government and in Local Autonomy Act for local agencies.

The estimated threshold price should be set properly about the objective article or the work in consideration of the market price used when transacting business, the situation of the supply and demand, the degree of difficulty of the performance of a contract, the quantity of the amount, the length of performance of the contract period, and so on.

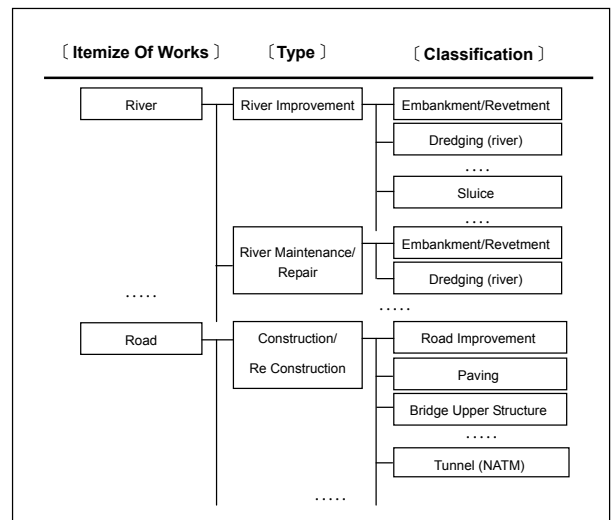
Standardization of the MLIT's cost estimation of the public construction

To ensure transparency and fairness of the contract, an estimated threshold price should be the same amount of money, not depend on who calculates. To realize it, MLIT developed standardized classification of construction work type. It involves the itemize of works, the type, the classification, the subdivision of classification, and the specification. More over it defines the units for cost estimation and construction amount summary list, the contents of statement of items and terms.



Cost estimation system

In order to calculate the estimated threshold price, the contract official needs a system that implements a database which stores costs of the machine, labor, and material costs, and a program that implements logic for computer processing. In Japan, we call this system a cost estimation system from 2000.



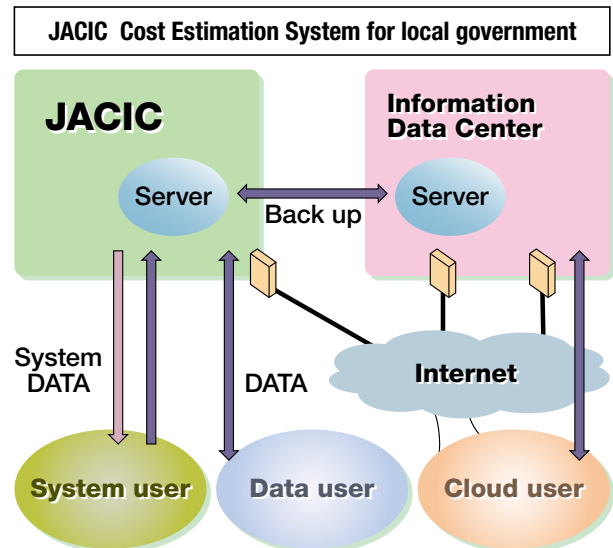
Activity about a cost estimation system of JACIC

JACIC engaged the development of the cost estimation system of MLIT since it was established, and contributed its improvement and supporting the operation. In addition, we offer the cost estimation systems based on Standardized classification of MLIT to local agencies. We have obtained much expertise from the duties of MLIT, so our system gets a high evaluation, because of a contract official's reduction of burden to calculate estimated threshold price.

Product and Service for local government

JACIC provides the system and the ASP service for cost estimation, and the data for the system to local governments. The system was adopted Web method and data formation is XML data format.

The XML formation data are able to apply to various systems flexibly, and the Web based system and the ASP service are easy to update in cost than previous client-server model.



(4) Construction-related materials recycling information service

Construction-related materials recycling

Developing land infrastructure contributes to improving quality of the people's life. On the other hand, processing wastes is a challenging issue. In Japan, laws and regulations have been enacted to promote recycling construction-related materials.

JACIC has established Construction-related materials information center to support construction project members can recycle materials, for example concrete, asphalt, timber and so on as byproducts from construction and demolition, and also re-use soil. Thus we are providing two web based information services.

For construction-related materials

We support promotion of recycling on construction sites construction-related materials and evaluation of effectiveness of administrative measure through statistics.

[Main Feature]

- Creating forms based on laws and policies.
- Sharing information of recycling fee and recycled material's price for each recycling plant.
- Showing route on the map between a construction site and a recycling plant.
- Summarizing recycle activities.

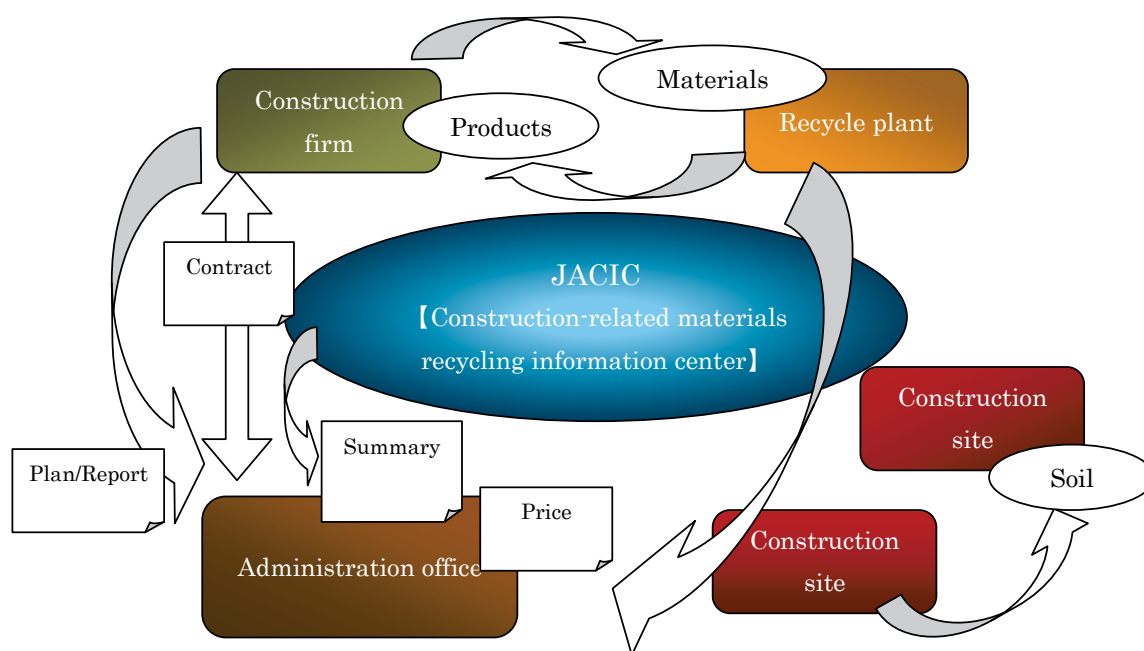
For using and transporting soil

We support exchange of supply and demand information on each construction project sites, so that they can transport necessary soil among construction project sites.

[Important Feature]

- Sharing soil exporting project site and soil importing project site within date term for supply and demand, quantity and quality of soil.

Position of JACIC



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Business scale of recycling information service

	construction-related materials	using and transporting soil
National government	224	212
National Institute	4	6
Local government	315	433
Other organization	5	6
Construction firm	15,352	—
Recycle plant	1,715	—
TOTAL	17,615	657

(as of Mar. 2017)