

Producing organisation: INSEE

- [Read the “Informations Rapides” related to this indicator.](#)

Goals

The IM index, “Worksite equipment”, aims to enable the updating of the value of equipment, if there is no replacement value available, for the calculation of equipment expenses. It allows to update the equipment values for quotations for used equipment and park valuations of the installed base, especially for expertise in disaster.

It should not be confused with the various “equipment item for civil engineering” (MATP) indices for construction, for the purpose of contract escalation.

Legal basis

The IM index was very close in its concept (cost index) and its sources (official statistics indices) to the various indices for construction, overall management of which was transferred to the INSEE in 2014. The French Public Works Federation (FNTP), which was formerly associated with the Ministry for Ecology, Sustainable Development and Energy for calculation and validation of the TP indices and certain various indices for construction, on this occasion wanted also that INSEE to take over calculation of this IM index.

Technical characteristics

1. Aggregation and reference

Like the BT, TP and various indices for construction at base 2010, the IM index is a chained Laspeyres index at reference 2010, although with a reference value at 1 and not 100, for historical reasons.

The items are obtained by the aggregation of the elementary indices:

$$P(t) = P(t-1) \cdot \frac{\sum_j \text{weights}(j,p) \cdot J(t)}{\sum_j \text{weights}(j,p) \cdot J(t-1)}$$

where p is the item, j the elementary index.

Then the index is obtained by the aggregation of the items:

$$I_i(t) = I_i(t-1) \cdot \frac{\sum_p \text{weights}(p,i) \cdot P(t)}{\sum_p \text{weights}(p,i) \cdot P(t-1)}$$

where i is the index, p the item.

2. Weightings

The following table provides the weightings of the IM index by KLEMST item. The base 2010 weightings have generally been revised in conjunction with the business federations concerned (French Building Federation, French Public Works Federation, National Interprofessional Group for Seeds and Plants, Road Equipment Trade Association), or are the result of work undertaken by the general commissariat for sustainable development of the Ministry for Ecology, Sustainable Development and Energy before 2013.

	Items						Total
	K Capital	T Labour	E Energy	M Materials		S Services	
IM - Base 2010	10%	45%	10%	35%			100%
Series (BDM codes)	001652081	001565183	001771241	001653196	25%		
				001653708	10%		

3. Sources of information

All the elementary indices used are produced by the INSEE, whether it be:

1. The [Hourly labour cost index](#),
2. The [Producer price indices of French industry for the French market, at purchaser's price \(for contract escalation\)](#),
3. Or the [Total supply of industrial products price indices \(for contract escalation\)](#).

4. Statistical unit

The IM index does not give rise to a new survey, but uses existing official statistics, in particular those coming from the survey of observed prices for industry and services ([OPISE](#)), to establish elementary indices.

Conceptually, the unit observed for its costs is the branch of activity of manufacturers of worksite equipment for construction.

5. Frequency of the operation

Monthly.

6. Rules for connection between the old and the new index for updating physical assets in construction (IM)

Until September 2014 inclusive, [the old series](#) is directly available and is authoritative. Since October 2014 inclusive, the old series can be extended as follows: [the new series](#) must be multiplied by the revaluation rate equal to 1.7431, then the product thus obtained is rounded off to four decimals.

History

An official decision of the Ministry of Public Works and Transport dated 12 December 1959 approved the “blue scale”, and in particular an initial IM index formula for calculating workloads

for the main items of civil engineering equipment. This index was then included in the revaluation formulae for public civil engineering contracts. Changes of formula and/or base were made in 1969, 1973, 1977 and 1986, with an initial reference at 1.

The following documents milestone the history of this index:

- [Information published on the IM index in 1986 by Le Moniteur](#) (pdf, in French only, 796 kB) ;
- [Introduction to the method for determining workloads, 1986, in a manual of the FNTF](#) (pdf, in French only, 3,086 kB) ;
- [An excerpt from the FNTF scale for determining workloads for the main items of civil engineering equipment, dated 10/01/1969 \(pp. 7 and 8\)](#) (pdf, in French only, 214 kB) ;
- Excerpts from the FNTF Annals, dated [1960](#), [1969](#) and [1974](#) (3 pdf files, in French only, 507 kB).