ENSEMBLE

Réinventons la prévention des TMS

MOOVENCY

Use case: MSDs in the construction and public works sector

Identifying risks and implementing solutions

In the construction and public works sector (BTP), workers' physical health is severely tested. According to the French National Health Insurance (Assurance Maladie), **87% of recognized occupational diseases in this sector are related to musculoskeletal disorders (MSDs).** These conditions are the leading cause of work-related compensation in this strategic industry.

This alarming figure is explained by a **higher exposure to biomechanical constraints** compared to other sectors. According to the SUMER survey (2010–2017), **50.9% of employees in the construction and public works sector were exposed** to at least one biomechanical constraint, **compared to 24.8%** in other industries.

- **Construction worker: a high-risk occupation**

Over the course of their career, a construction and public works employee will experience **2.5 occupational accidents** and accumulate **220 days of sick leave** (due to a work-related accident or occupational illness). On average, each year, **one in every 18 employees** in the sector is the victim of a workplace accident.

Source : Assurance Maladie

How can the well-being of construction workers facing MSDs be reconciled with business performance in a sector marked by high physical strain?

- **The most common risk factors for MSDs in the construction and public works sector:**

REPETITIVE MOVEMENTS

LOAD HANDLING

VIBRATIONS LINKED TO MACHINE TOOLS OR MACHINERY

PROLONGED CROUCHING OR BENDING POSTURES

- **Impacts on worker health:**

MSDs encompass several conditions, with the most common in the construction sector including:

- **Tendinitis** (shoulder, elbow, wrist)
- **Carpal tunnel syndrome**
- **Bursitis**
- **Lower back pain and herniated discs**

More than 10% of workplace accidents in the construction industry are linked to lower back pain or spinal issues.

- **Impacts on the company:**

The consequences of MSDs are not only human — they also place a **heavy burden on professional organizations.**

AROUND

186 M

In annual direct costs related to MSDs (occupational injury / disease contributions)

MORE THAN

1.8 M

Workdays lost per year, equivalent to over 8,500 full-time positions

AROUND

40%

Of sick leaves are related to back pain

Source : Assurance Maladie figures for 2016-2017

To this are added **indirect costs:** team disruption, overtime, reliance on temporary workers (turnover), loss of know-how, project delays, and reduced productivity...

So, what can be done?

Risk reduction in the construction sector relies on prevention and the implementation of effective solutions.

Construction site preparation

By anticipating the supply of materials on the construction site, **unnecessary movements and manual handling can be reduced**. Site preparation helps minimize **organizational uncertainties** by integrating health and safety concerns from the planning stage. It involves **analyzing critical phases** (e.g., delivery, storage, installation) **to identify physically demanding situations** — common to various finishing trades — and to propose concrete improvements.

Utilizing appropriate and ergonomic tools

Providing appropriate tools and equipment **helps reduce physical strain and effort** (e.g., trolleys, clamps, panel lifters, low-vibration tools).
Heavy lifting can be made easier through the use of **mechanical aids or collaborative solutions.**

Team training and awareness

Teaching best practices for lifting loads and adopting proper postures is essential to prevent musculoskeletal disorders (MSDs). Similarly, **involving workers in the prevention process** and encouraging them to **report field issues helps foster a proactive safety culture.**

- **Financial support is available to assist you: Fonds FIPU**

The **FIPU** (Investment fund in professional wear prevention) supports the financing of preventive actions targeting three so-called "ergonomic" risk factors:

- **Manual handling of loads**
- **Strenuous postures, defined as forced joint positions**
- **Mechanical vibrations**

This subsidy can take various forms: financial assistance for the purchase of ergonomic equipment, **guidance and support for adapting workstations, or training programs aimed at raising employee awareness of proper ergonomic practices.**

I'm discovering the FIPU

Why choose KIMEA by Moovency ?

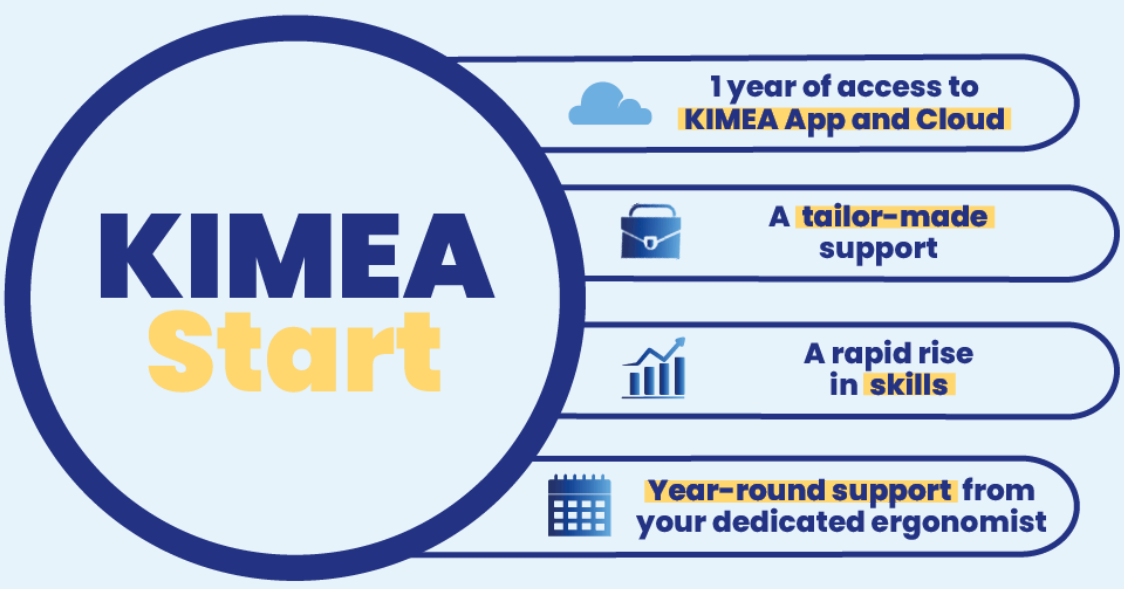
To address MSD risks on your worksites, discover KIMEA START.

KIMEA START : A comprehensive turnkey solution for preventing MSDs

KIMEA START is an all-inclusive one-year package that guides you towards sustainable prevention by providing :

- **One year of access to KIMEA APP** – our data capture tool;
- **One year of access to KIMEA CLOUD** – our analysis platform;
- **Dedicated support and follow-up** with your assigned ergonomist.

Most importantly, you'll leave with the tools and knowledge to kickstart your MSD prevention strategy.



In terms of **prevention**, adopting a continuous optimization approach ensures you deliver the best and constantly improve your employees' well-being.
You stay up-to-date

We also offer **training services**. We train your **internal teams** to use our KIMEA suite of tools to assess workstations. This way, you are no **longer dependent on another company** for physical risk measurements. You only need to consult ergonomists for complex situations that require a specialist.

A tool like KIMEA is ideal for ensuring ongoing optimization of workstations : with the KIMEA score and visual indicators, you can assess your progress at a glance !

Feel free to contact us

Contact us

MOOVENCY

Because **every movement** matters