

Longitude

The Role of Wearable Technology in Managing Musculoskeletal Risk.



About Longitude 6.

- The latest in workplace health & safety technologies
- We capture complex data and translate it into tailored, effective solutions that help prevent workplace injuries and improve performance.

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The issues we recognise.

Our clients consistently tell us:

- We do not get the organizational 30% reduction in injuries or costs.
- Adhoc acquisition with no total organisational plan.
- Scaling is not working, skills required- cost - No ongoing champion.
- Support is limited to tech support only; how do we use the information?
- Hidden costs, licenses, hardware, training, managing the data outputs, implementation.



The unknowns.

Our clients consistently ask us why:

- Single sensors - Do what?
- Exo Skeletons - Do what?
- Ai vrs Camera Recognition Technology is there a difference
- Reputed benefits, are not the technology
- Technology changes fast and message is complex
- Technology changes fast and message is complex



Tech should make your life simpler. That's not always true.

Our clients consistently tell us:

- They don't like buying equipment.
- They need consistency across sites.
- They don't know how to action their data.



What is needed?

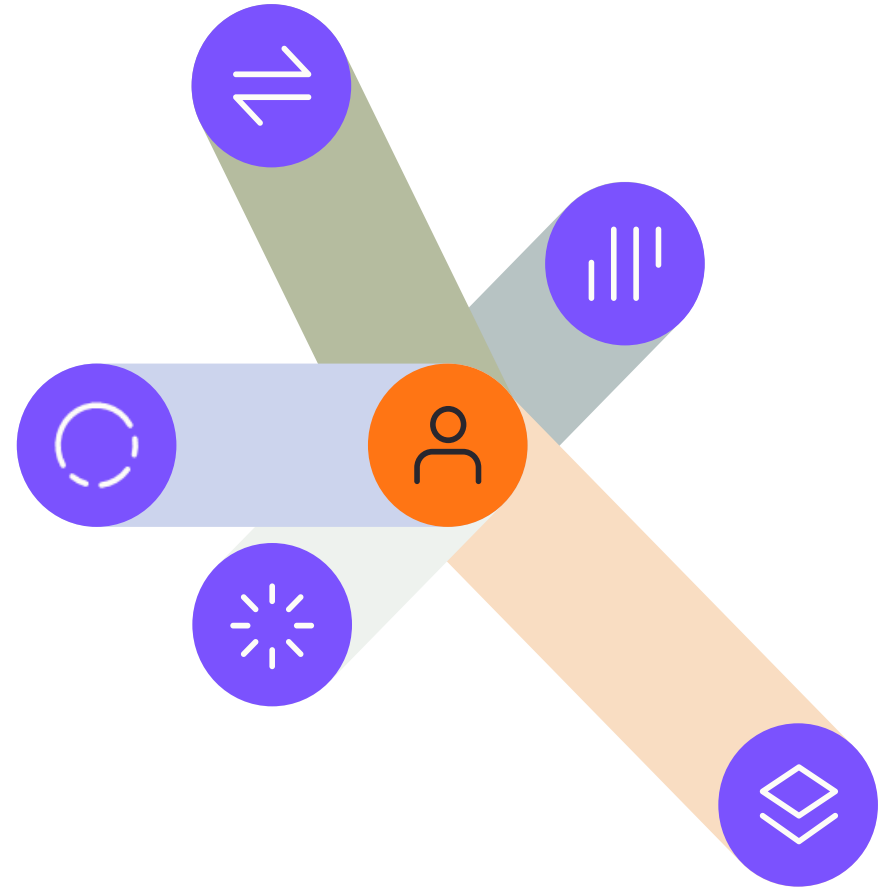
We want the world of employers and their employees to have access to relevant data to help improve decisions and track improvements on how people work safely. We have removed the barriers to using a dynamic technology in supporting the new workplace.

- **No long-term contracts** - Trial the product, purchase a small assessment package, no long-term commitments. Simply purchase more assessments as you require. Affordable and no risk.
- **Enabling remote assessments** - Provide your people a link they self assess. Organise an event and have the team together. Remote or one-off assessments, send a one-time link. All data and outputs in your control immediately an assessment is complete.
- **Workplace relevant** - Terminologies making sense to the workplace. Measures are workplace relevant. Making decisions to workplace activities.
- **No expensive equipment** - Use your existing mobile device, iPad or Mobile.

An Eco System Approach.

Our expert team of occupational physiotherapists, risk and tech consultants match the world's best safety analysis and tech solutions with your business needs.

- Pre-employment
- Task Risks
- Fitness 4 Works
- Training
- Injury Management
- Return to Work



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Wearable Sensor Technology task assessments.

Powerful analytical data to make detailed changes.



Robust data analytics.

We think using wearables should be available to all organisations, no restrictions due to budget or operational skill. Our commitment is to provide access to the very best wearables sensor technologies to everyone, along with an extraordinary level of support in how to use the data.

- Buy technology - Maybe
- Short term rental - Why not



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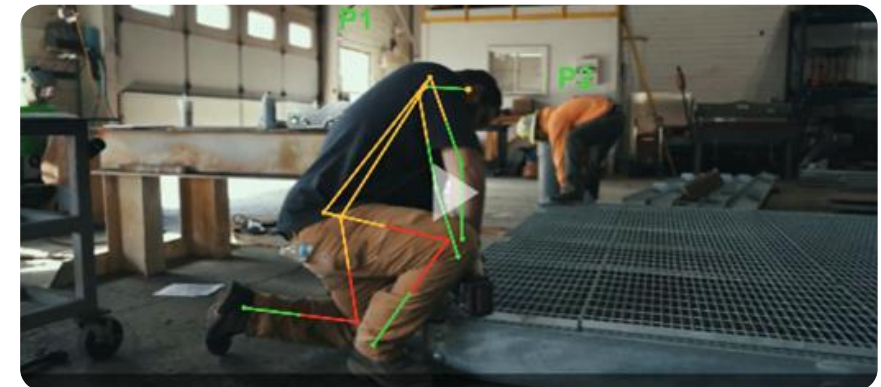
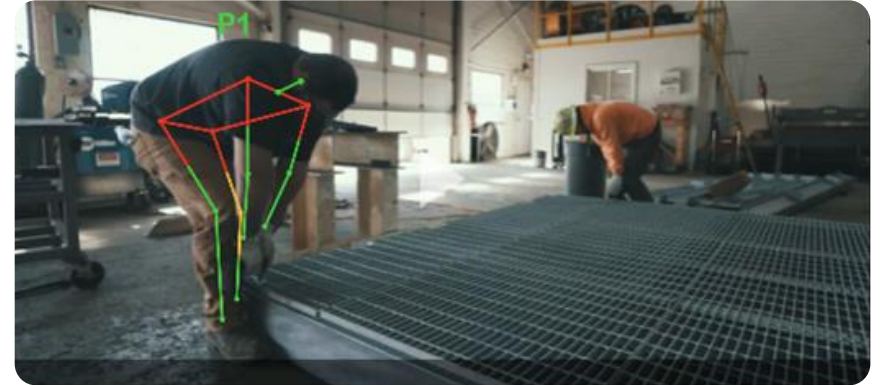
Ai computer vision technology task assessments.

Job task analysis from the palm of your hand.



None of the equipment, with the accuracy.

- Available technologies use sensors or vision recognition. Many using equipment you have to store, repair and track. Our clients told us they're sick of this, and we listened.
- We'd like to introduce you to the latest in Ai computer vision technology, while also using wearables when that option is apparent.
- New advances mean Ai computer vision is highly accurate. With in-built algorithms, this tech gives you objective assessments enabling actionable recommendations.



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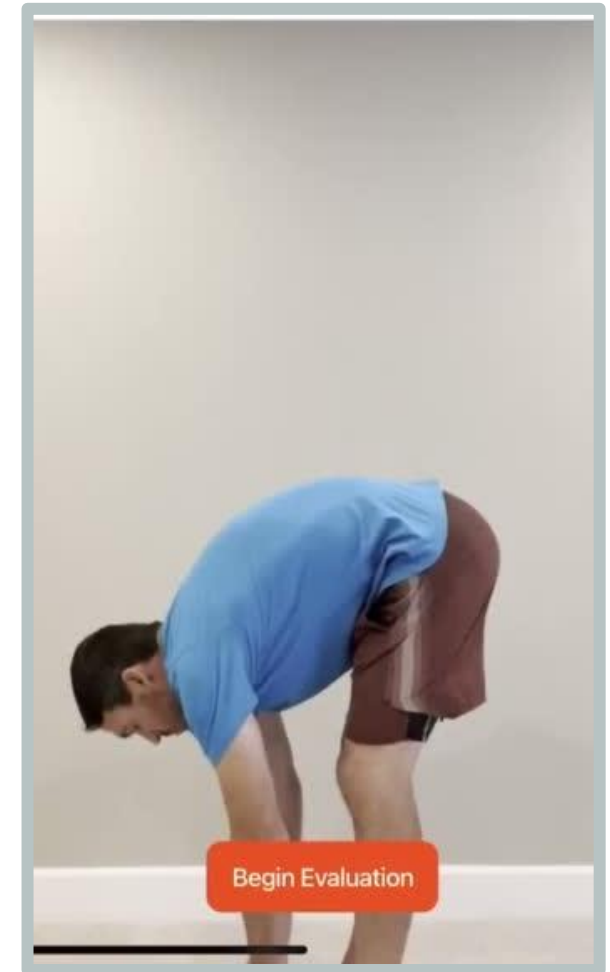
Ai computer vision technology functional capacity.

Knowing your people, creating a sustainable workplace



Motion Capture.

1. Back flexion.
2. Back extension.
3. Shoulder abduction.
4. Shoulder flexion.
5. Shoulder external rotation.
6. Squat.



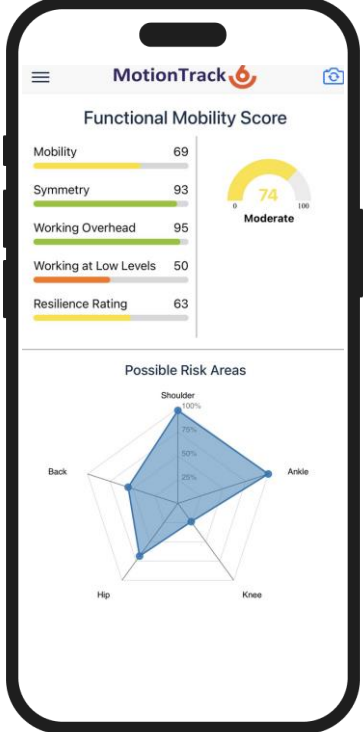
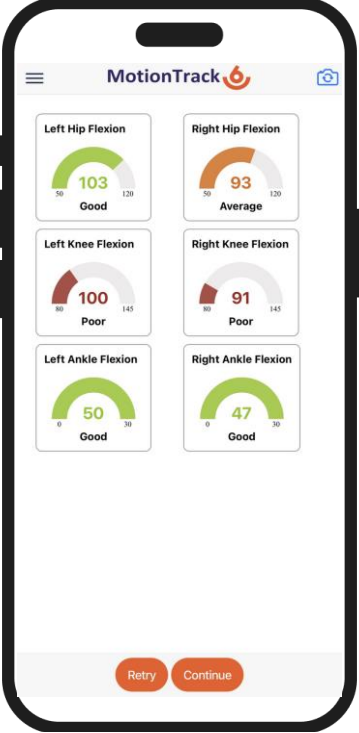
Then we look at the whole human.

- The joint scores are combined to produce an overall score. The overall score can be broken down into mobility, symmetry, working overhead and working at low levels.
- A spider diagram helps you see which body part is bringing down the employee's overall score.

Movement Scores		
Test	Score	Symmetry
Shoulder Abduction	L180 R180	100%
Shoulder Flexion	L180 R180	100%
External Rotation	L96 R82	85%
Trunk Flexion	87	
Back Extension	24	
Hip Flexion	L103 R93	90%
Knee Flexion	L100 R91	91%
Ankle Flexion	L50 R47	94%

No Flags

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Employee-specific Fit4Work Programs.

Using data and analytics from 1 or more technologies:

- Tailor exercise programs specific to the functional needs of each employee based on objective assessments and in-built exercise options.
- Monitor and adjust programs based on Ai tech feedback throughout the program.

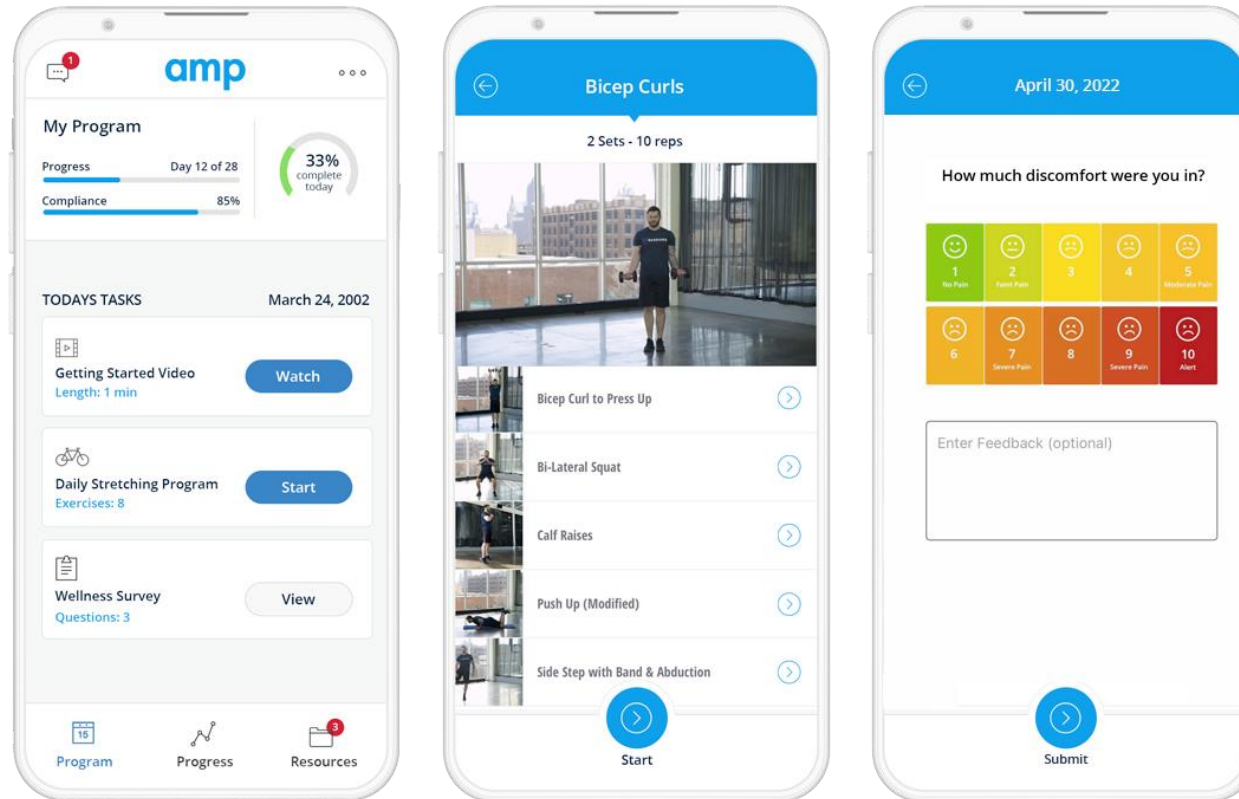
Ease of management and delivery:

- Full functionality dashboard for program design and ongoing management at workforce, cohort and employee level.
- Program delivered via APP on employee's mobile phone.
- Ability to communicate 2-way with worker for feedback, encourage and motivate.

Proactively prevent injuries:

- Addressing employee-specific risks before injuries occur.
- Fit4 Work means Fit4 Life – be an employer of choice.

Employee-specific Fit4Work Programs.



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Bringing it all together.

Aggregation of information to make decisions efficient and objective.



Technology is Powerful. But!

- Small purchases and trials
- Short term agreements
- Look at the support model
- Look at multiple technologies
- Know what you want to achieve
- Build a systems approach to implementation and ongoing use

