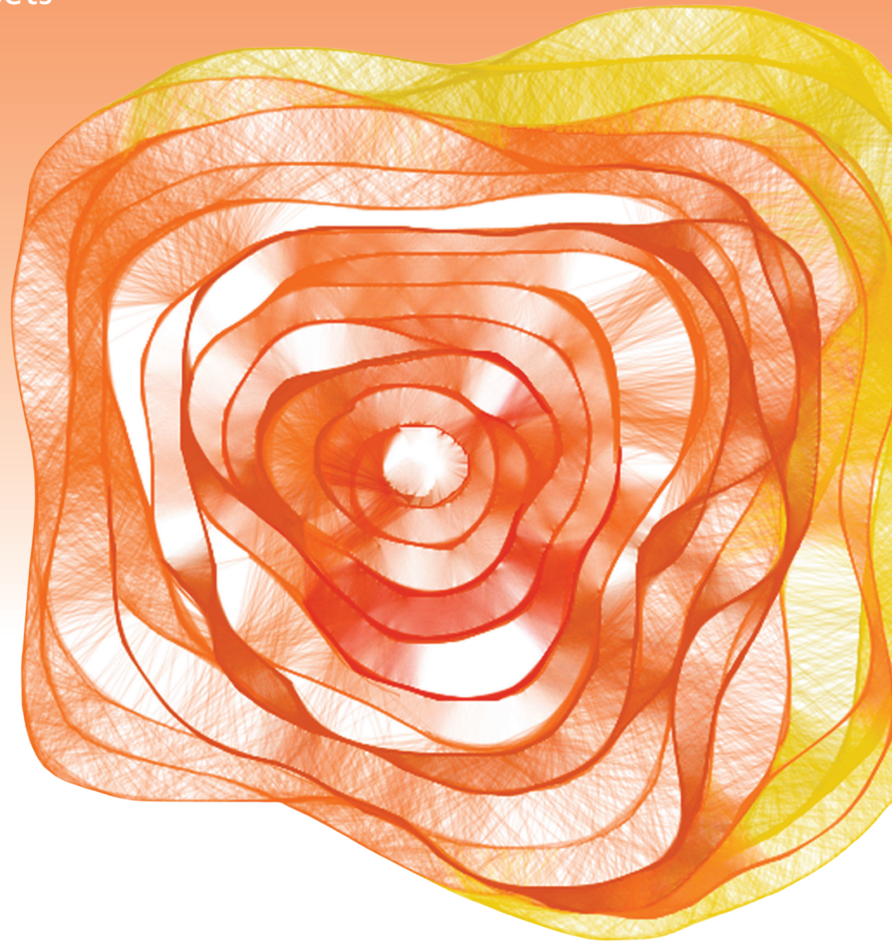


New Release

FAID[®] Quantum

A quantum leap forward in bio-mathematical modelling for fatigue risk management

- The ultimate accuracy in sleep-wake prediction
- New bio-mathematical modelling based on real-world data
- Peer-reviewed, documented scientific model
- Can incorporate your actual sleep-wake data
- Incorporates time zone and circadian disruption calculations
- Output in two scales – KSS and FAID
- A cost-effective management solution
- Easy to use for large data sets



InterDynamics FAID software has been an industry standard for alertness prediction and fatigue management since its introduction in the late 1990s. Now InterDynamics is setting a new standard with FAID Quantum, which offers a whole new level of scientifically-verified accuracy based on real-world data.

FAID Quantum has been developed by Dr David Darwent in conjunction with Professor Drew Dawson and Dr Greg Roach of the Appleton Institute. It uses the best sleep-wake predictor algorithms that have yet been published in international peer-reviewed literature¹ and analyses the work-rest schedules of your personnel to produce a fatigue score in the Karolinska Sleepiness Scale (KSS). It also includes output in the original FAID scale for comparison.

Improved accuracy from better data

The researchers at the Appleton Institute have used what may be the largest database of quality sleep-wake data in the world, incorporating nearly 15,000 days and nights of data collected from various industries, including long-haul aviation, to underpin predictions.

With older bio-mathematical models of fatigue, predictions were based on average patterns of sleeping and waking but, with **FAID Quantum**, actual sleep and wake patterns are used to predict future alertness.

With this superior real-world data, **FAID Quantum** can justifiably claim to be the most accurate predictor of alertness available on the market today.

Versions and tools to suit your organisation

FAID Quantum is a cost-effective management tool with different options available for different sized organisations. It is easy to use for large data sets, giving quick calculations for multiple workers.

It can be integrated with third party rostering tools or **FAID Quantum Roster**.

Using the same interface as **FAID Standard**, it is easy for your organisation to upgrade.

Comparison with FAID Standard

	FAID Standard	FAID Quantum
Application	Basic fatigue risk management suitable for many industries and sectors	Best prediction of sleep-wake for sensitive and complex sectors
Output/s	FAID score	FAID score and KSS score
Time zone	Optional extra	Included – incorporates circadian disruption and resynchronisation
Source	Based on Australian Rail industry data from 1995–2005	Based on 15,000 days and nights from various industries including long-haul aviation

FAID Quantum goes beyond safety compliance to best-practice prediction. While the ultimate vigilance of FAID Quantum is reassuring for aviation and other sensitive industries, the software also brings benefits in the smarter management of work schedules. This needn't mean more or fewer staff but allocating your existing staff in ways that are better for them, better for safety and better for business efficiency.

Find out more

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¹ Darwent, D, Dawson, D & Roach, GD 2012, 'A model of shiftworker sleep/wake behaviour', *Accident Analysis & Prevention*, vol. 45, supplement, pp. 6-10