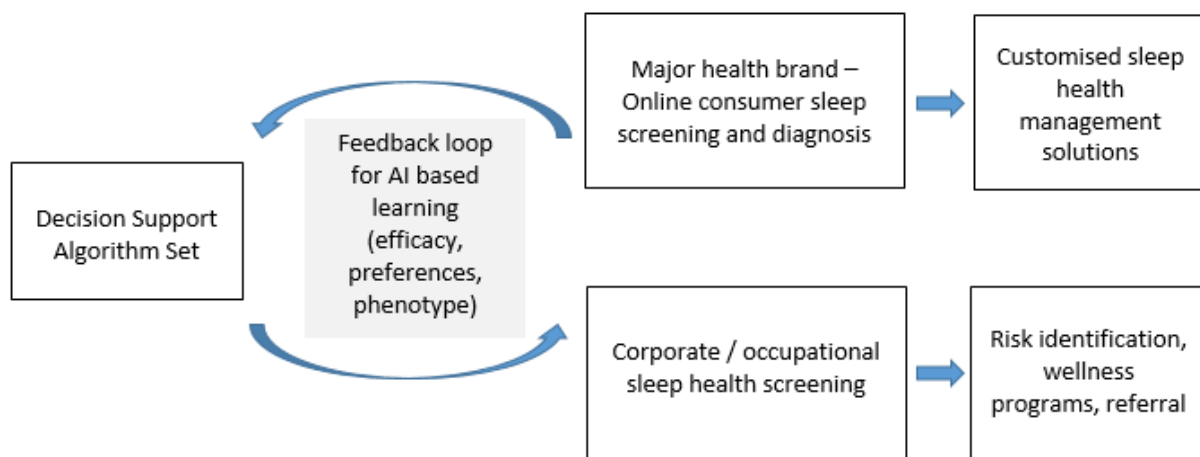


## Output Profile: Personalized Sleep Health Decision Support Algorithms

Sleep health decision support algorithms driving independent screening and therapy solutions for common sleep problems. Validated against specialist sleep physician diagnosis and management plans, the web-based algorithm is capable of reliably identifying and triaging the risk of five main sleep problems:

- Insomnia
- OSA/snoring
- Chronic Sleep Restriction
- Delayed Sleep Wake Phase Disorder
- Shift Work Disorder



### Ongoing capability enhancements

- *Artificial Intelligence/ Machine Learning Based Profiling:*
  - To maximize sensitivity and specificity of the algorithm, capture presence and impact of multiple sleep-related problems
- *Process Load Reduction:*
  - Maximize efficiency of the algorithm to identify risk of sleep problems.
  - Inclusion of objective data (such as wearables or bed-based devices) to augment diagnostic accuracy and algorithm efficiency, and provide objective longer term monitoring of treatment effectiveness.
- *Individualisation of Tips and Solutions:*
  - Using Machine Learning for the Algorithm to learn to individualize different tips and techniques to different categories of people with different sleep problems.

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## Applications

- shift working industry
- professional drivers / operations
- clinical
- health insurance
- defence

The AI based tool can assist organisations drive independent screening and tailored therapy solutions for common sleep problems with the incorporation of objective measures and data science techniques providing additional capacity for users to self-manage performance improvement and for organisations to optimize operational efficiency and promote employee health, safety and well-being.

*Alertness CRC is exploring a range of options to further the use of its research, technology and products and is open to speaking with a range of interested entities from investors to licensees and commercialization partners. Additional public information is available at: <https://mjkpartners.com/opportunities/alertnesscrc/> or contact Myron Kassaraba, MJK Partners, LLC, Tel. 617-902-0639, [myron@mjkpartners.com](mailto:myron@mjkpartners.com).*