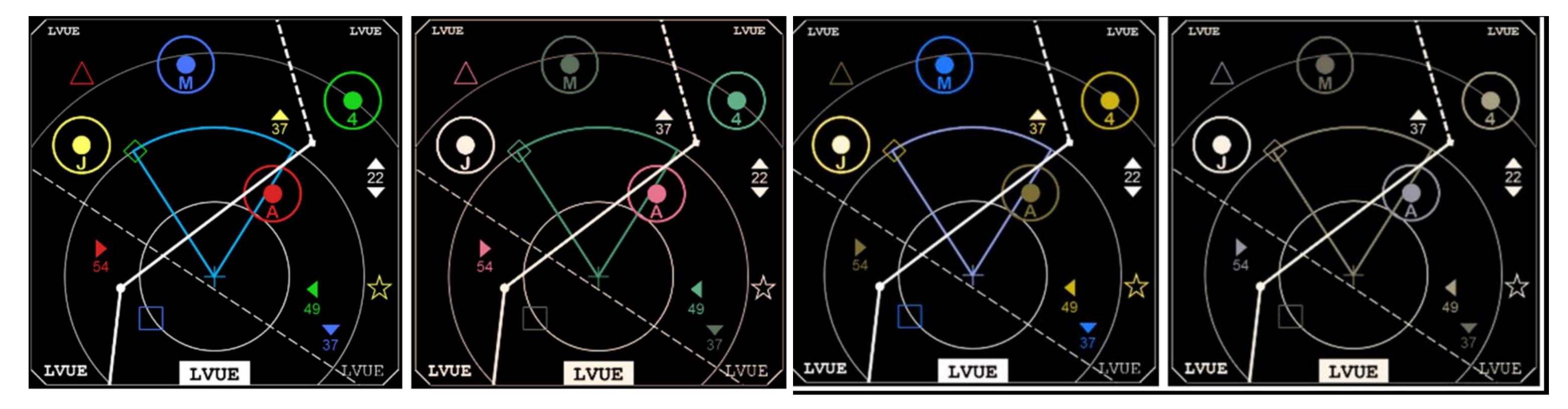


Australian Government

**Department of Defence** 







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Display with normal colour vision

Display with normal colour vision and LEP

Display with red colour deficiency Display big

Display with red colour deficiency and LEP

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**DEAKIN** UNIVERSITY

## Purpose

- Quantify the decrement in colour vision when using different LEPs
- Examine the effect of LEP on task efficiency with current visual display colour schema

## Product

- Literature review focused on LEP interaction with colour perception
- Report on effect of LEP on clinical colour vision certification tests
- Investigate whether alternative colour schema can increase operational efficiency

## Schedule

- FY19-20: Survey of LEP in use and development
- Data collection on current colour vision schemas.

- Development of a simulated environment to include heads-up display with colours
- Report on efficiency of current colour schema
- Evidence based recommendations for colour schema in visual displays to be used with LEP

## Partners

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- Deakin University: Amanda Douglass, David Hammond, Saeid Nahavandi,
- Evaluation of LEP on clinical colour vision tests
- FY20-21: Development of simulated environment, evaluation of different colour schema

Mohammed Hossny, Julie Iskander, James Armitage

- The University of Melbourne: Larry Abel, John Parkes
- DST: Maria Gavrilescu, Renee Karas

Human Performance Research network

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