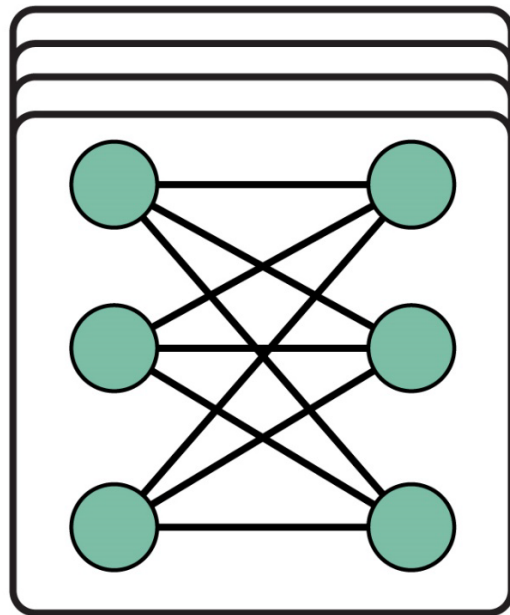


Technology & Hardware for nEuromorphic coMPuting

- ECSEL Research and Innovation Actions (RIA*) –



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Deliverable 3.6

– Compact Model Generation for OxRAM –

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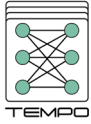
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1. Public summary

This report describes the model card extraction for OxRAM based on measurement D3.4. The OxRAM compact model used [1] is developed at CEA and is going to be published (currently under review).

Median behaviour is described by one model card. To account for variability, the users can use:

- the corner model cards which describe OxRAM behaviour for the best and worst cases at 3 and 1 sigma.
- The MonteCarlo model card which includes statistical variation of resistances. Performing SPICE pseudo random simulations, experimental resistance distributions can be reproduced

Finally to account for reliability, same work is performed with measurement done after $1e5$ cycles.