



Large interior

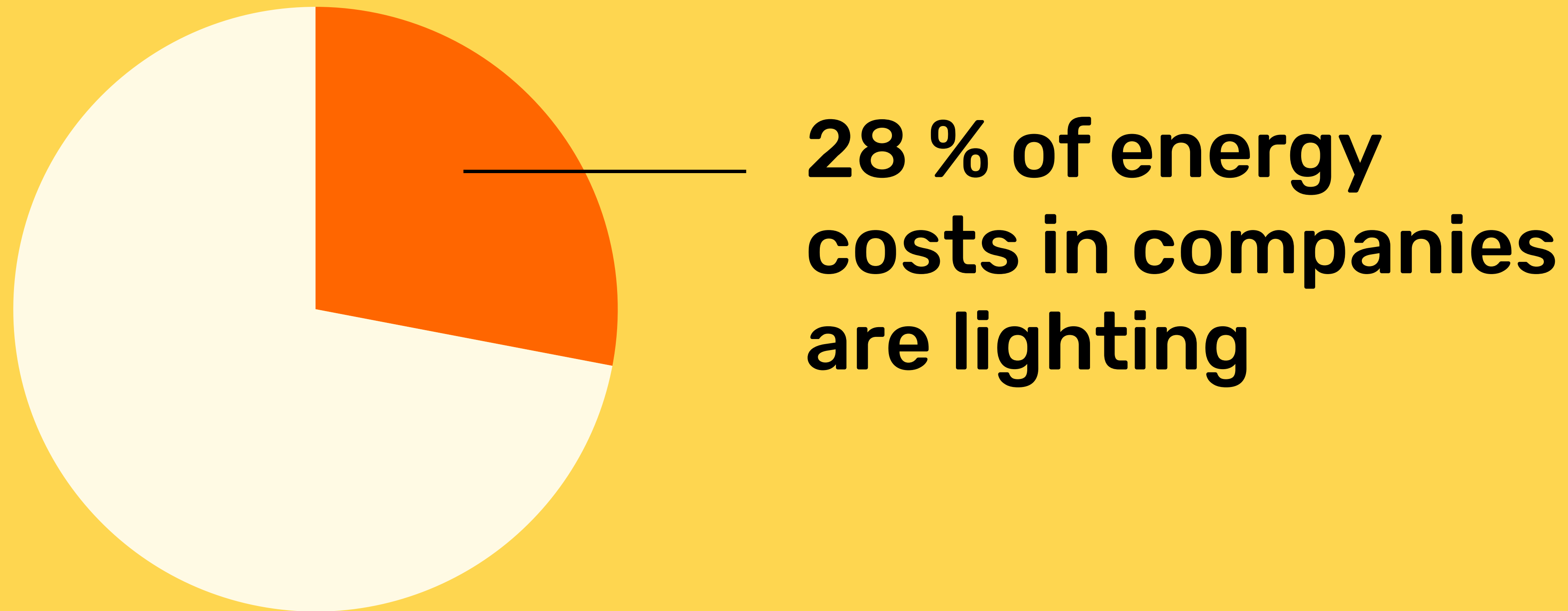
Open-plan office

Lighting always on

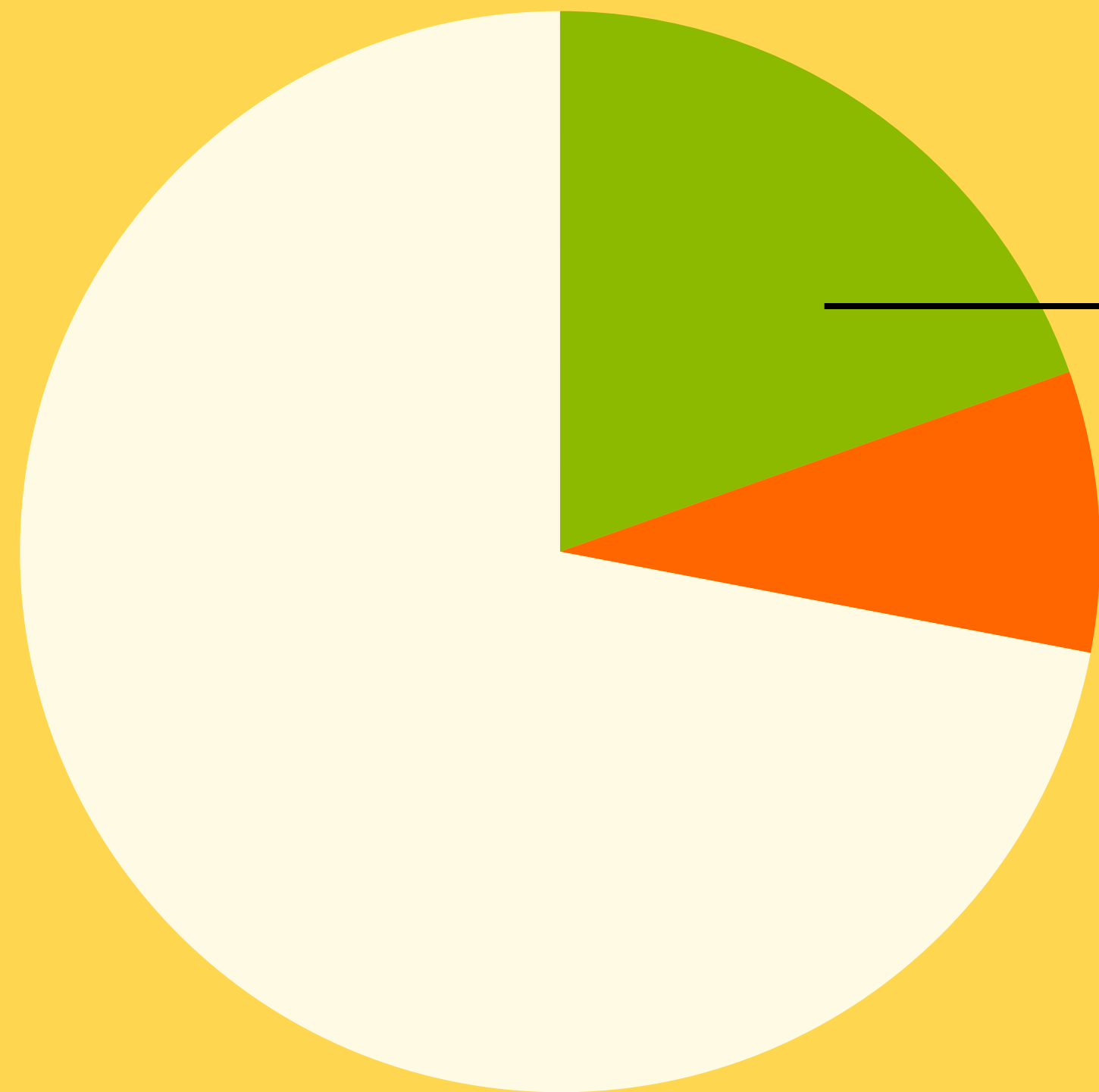
No light switch

**Very high energy
consumption**

ENERGY COSTS IN COMPANIES



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**70% of these lighting
energy costs can be saved**

19.6 % of overall costs

$$1.000.000\text{€} * 19.6\% = \sim \underline{\underline{196.000\text{€}}}$$

LIGHT



TOMORROW

Innovative Lichtsteuerung



Foto privat: Marvin Pfau (mp159), Michael Cabanis (mc071), Christos Kafkalis (ck188), Marco De Jesus Antonio (md131), Timo Waldherr (tw086)

FUNCTIONAL REQUIREMENTS

What is our idea?

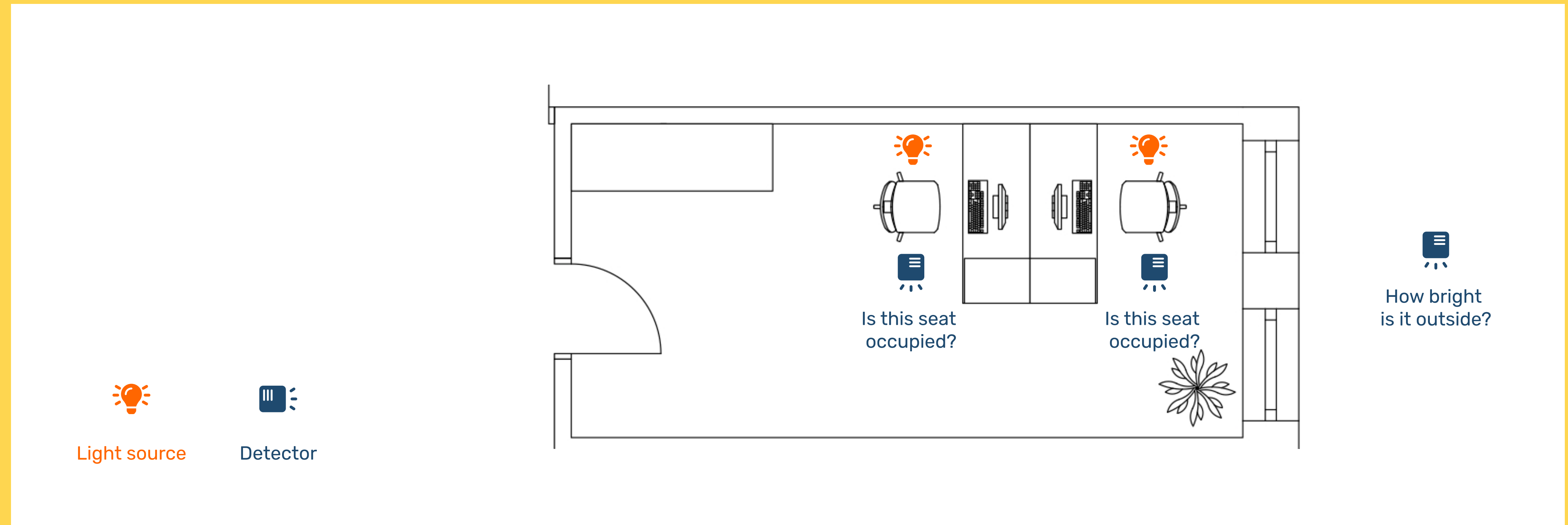
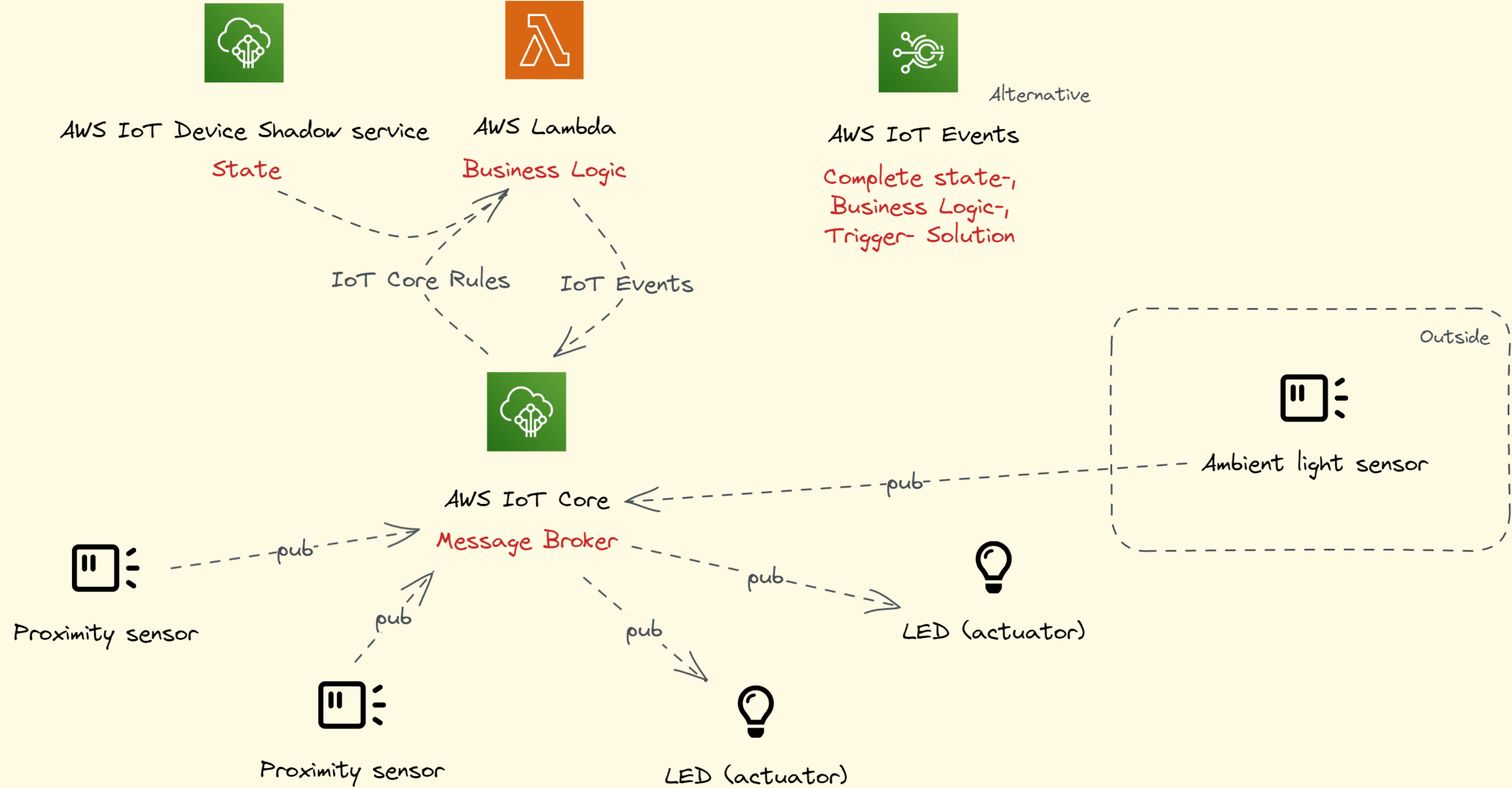


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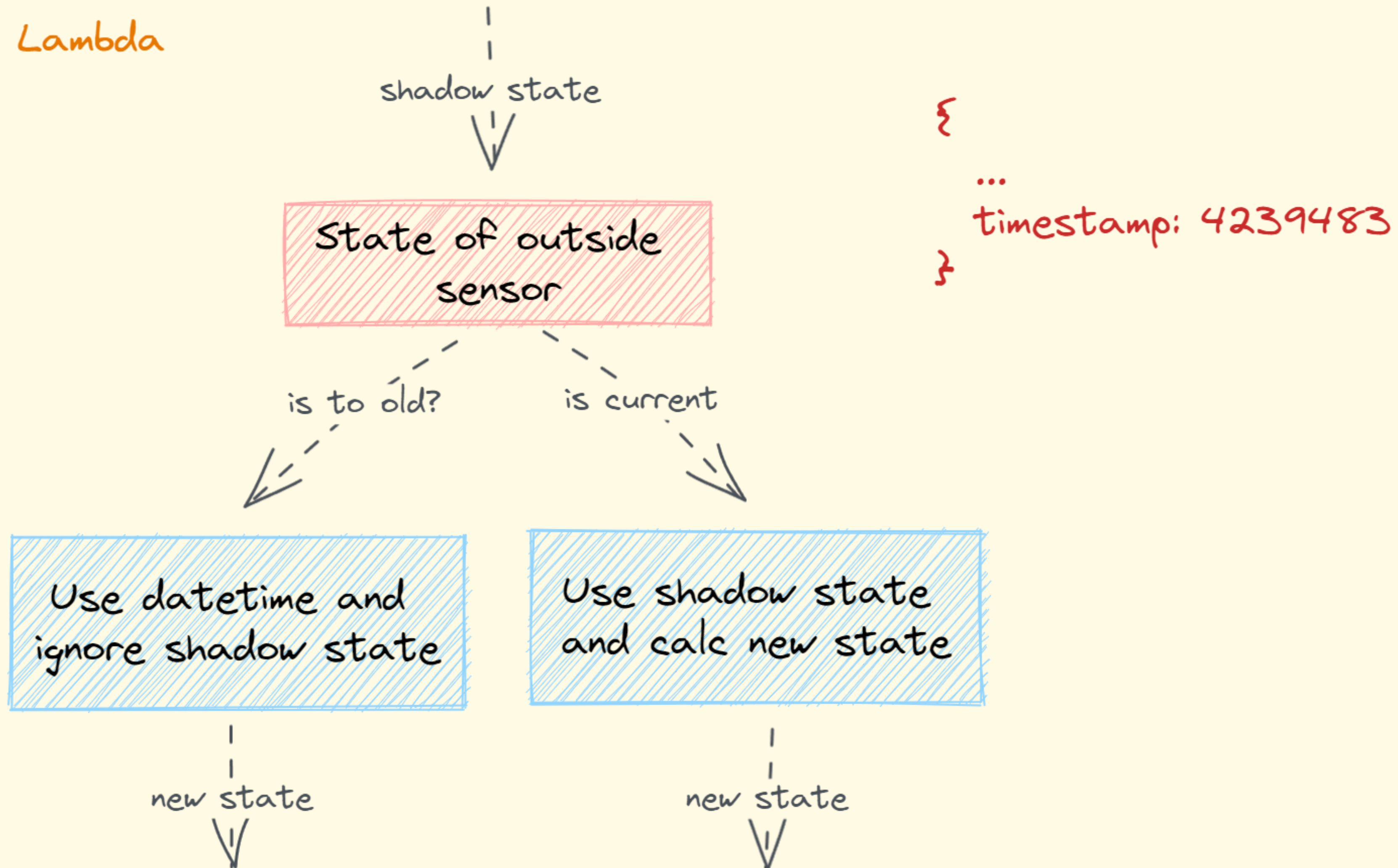
TECHNICAL REQUIREMENTS



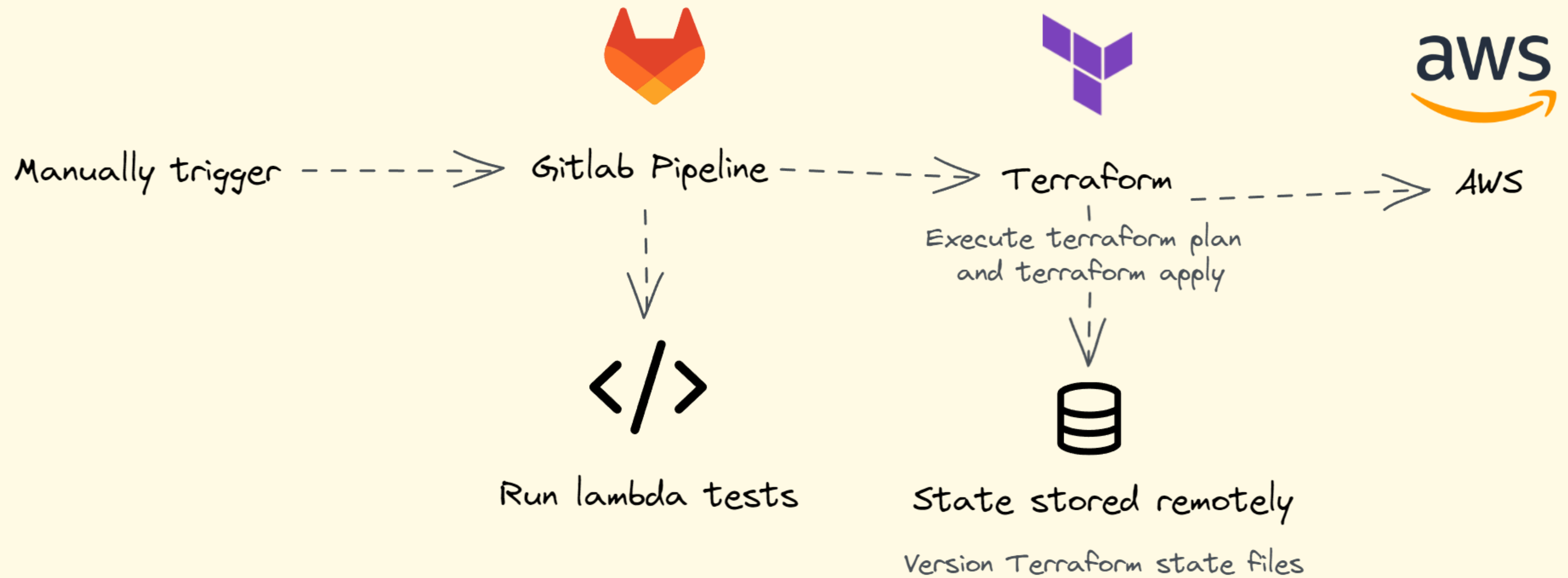
TECHNICAL FALLBACKS



Lambda



CI/CD PIPELINE & TOOLING



CHALLENGES



Working with hardware



Find and pick the right services



No experience with AWS

→ AWS IoT Core shadows instead of DynamoDB

CURRENT STATE

- ✓ **Project idea**
- ✓ **Architecture defined**
- ✓ **AWS services selected**
- ✓ **Toolings selected**

NEXT STEPS

- ➔ **Set up & Mock sensors/actuators**
- ➔ **Implement and test selected AWS services (IoT Core, Lambda, IoT Events)**
- ➔ **Setup Terraform, CI/CD**

