**Legend Generator Script for ArchiMate Views**

**Tool**: jArchi  
**Version**: 1.0  
**Last Updated**: 10 June 2025  
**Author**: Nico Santos  
**Ownership**: Property of BHP (Internal Use Only)

### **Overview**

This script creates a comprehensive diagram legend for a selected ArchiMate view in jArchi. It automatically scans the view for used element and relationship types and generates a visual key grouped under a "Legend" container. This ensures better clarity and standardised documentation across views.

### **Key Features**

* Automatically detects all element and relationship types present in the view.
* Generates standardised legend entries using prefixed concept clones.
* Assigns generated legend items to layer-based folders (e.g., Business, Application, Relations).
* Includes pictogram and descriptive note for each type.
* Visualises relationships with anchors and transparent groupings.

### **How to Use**

1. **Open the View**Open the ArchiMate view where you want to generate a legend.
2. **Run the Script**Execute the script from the jArchi script console.
3. **Legend Creation**
   * The script checks existing legend content.
   * It creates or updates the legend group with nested elements and relationships.
   * Notes and connections are visually arranged for clarity.

### **Legend Structure**

* A top-level group named Legend is created in the view.
* Each unique element type gets:
  + A pictogram (visual representation)
  + A note with the element's type label
* Each relationship type gets:
  + A transparent connection with left and right anchor groupings
  + A label (note) with the relationship name

### **Requirements**

* Prefixed concept types must exist or will be created dynamically.
* Model folders must exist for proper classification:
  + Business, Strategy, Application, Technology & Physical
  + Motivation, Implementation & Migration, Other, Relations

### **Notes**

* Elements tagged with Object State = "Legend" are ignored from main processing.
* The script avoids legend duplication but does not delete old legends automatically.
* Anchor points and labels are handled with transparency to avoid clutter.