

This sequence diagram illustrates the transition of your project from a technical proof-of-concept into a global governance use case for the **AI for Good Global Summit**. It maps how the **Neurodivergent Scale for Interacting with Robots (NSIR)** functions as a real-world de-escalation tool in high-stakes environments like correctional facilities or police intake.

Overview of the De-escalation Sequence

The process begins with the identification of **empathy erosion** in a practitioner (e.g., a police officer). To prevent the **"Path to Victimization"** (0.59 coefficient), the AI system deploys **Volitional Submissiveness (S_v)** markers. This intervention is monitored by an **Oversight Body** to ensure institutional empathy standards are maintained through measurable metrics like **Reliability** ($r \approx 0.90$).

Sequence Diagram (XML for draw.io)

You can copy the code below, save it as an `.xml` file, and import it directly into **draw.io** (diagrams.net).

XML

```
<mxfile host="app.diagrams.net" version="21.0.0">
  <diagram name="AI for Good Sequence">
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      tooltips="1" connect="1" arrows="1" fold="1" page="1" pageScale="1"
      pageWidth="827" pageHeight="1169">
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        <mxCell id="0" />
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        <mxCell id="2" value="Practitioner&#xa;(Police/Military)"
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          parent="1">
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            parent="1">
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            <mxCell id="4" value="AI System&#xa;(NSIR Framework)"
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              parent="1">
              <mxGeometry x="420" y="40" width="120" height="440" as="geometry"
                />
              </mxCell>
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        </mxCell>
      </root>
    </mxGraphModel>
  </diagram>
</mxfile>
```

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    <mxCell id="5" value="Oversight Body&#xa;(Governance)"
style="shape=umlLifeline;perimeter=lifelinePerimeter;whiteSpace=wrap;html=1;container=1;collapsible=0;recursiveResize=0;outlineConnect=0;" vertex="1"
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    <mxCell id="7" value="Monitor for Empathy Erosion"
style="html=1;verticalAlign=bottom;endArrow=block;edgeStyle=elbowEdgeStyle;elbow=vertical;curved=0;rounded=0;dashed=1;" edge="1" parent="1" source="4"
target="2">
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    <mxCell id="8" value="Detect Path to Victimization (0.59)"
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source="4" target="4">
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    <mxCell id="9" value="Deploy Sv Markers (f0 ≈ 100 Hz)"
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    <mxCell id="10" value="Reduced Moral Disengagement (0.18)"
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```

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    </mxGeometry>
  </mxCell>

  <mxCell id="11" value="Preserve Dignity & Polite Response
(82.8%) "
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source="3" target="2">
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      <Array as="points"><mxPoint x="230" y="340" /></Array>
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  <mxCell id="12" value="Log Reliability (r ≈ 0.90) & Compliance"
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bow=vertical;curved=0;rounded=0;" edge="1" parent="1" source="4" target="5">
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</root>
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</diagram>
</mxfile>

```

Key Submission Points Mapped to Diagram

- **Target Environments:** The system is designed for high-authority training and digital intake interfaces in the justice sector.
- **Intervention Mechanism:** By transposing human submissive signals (acoustic and morphological), the AI stabilizes hierarchies and prevents systemic dehumanization.
- **SDG 16 Impact:** This governance model provides a measurable standard for **Institutional Empathy**, directly supporting the creation of peaceful and just institutions.
- **Transparency:** Per the "AI for Good Scholars" requirements, the AI's role in formulating the index and technical drafting is explicitly declared.

Would you like me to draft a specific **Ethics and Human Rights Statement** for your "AI for Good Scholars" submission based on this sequence?