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1. Operational Definition: The activation of universal, innate patterns of behavior (“archetypes”) such as “The Hero,” “The Trickster,” or “The Shadow” by certain cyber events, leading to predictable but often irrational collective responses.

2. Main Metric & Algorithm:

- **Metric:** Archetypal Narrative Score (ANS). Formula: $ANS = NLP_Sentiment_Analysis(Commms, [ARCHETYPAL_KEYWORDS])$.

- **Pseudocode:**

```
python

def calculate_ans(team_channel_id, start_date, end_date):
    # 1. Fetch communications from a team channel during a specific incident
    messages = query_team_messages(team_channel_id, start_date, end_date)

    # 2. Use NLP to analyze sentiment and detect archetypal language patterns
    archetypal_patterns = {
        'hero': ['i alone', 'save the day', 'on my shoulders'],
        'trickster': ['clever hack', 'fooled them', 'too smart'],
        'shadow': ['they are evil', 'pure malice', 'dark intent']
    }

    archetype_score = 0
    for message in messages:
        for archetype, keywords in archetypal_patterns.items():
            if any(keyword in message.text.lower() for keyword in keywords):
                # Use sentiment to weight the score (e.g., strong emotion = higher score)
                sentiment = analyze_sentiment(message.text)
                archetype_score += (1 * abs(sentiment))

    # 3. Normalize score by number of messages
    ans = archetype_score / len(messages) if messages else 0
    return ans
```

- **Alert Threshold:** $ANS > 0.7$ (A high concentration of emotionally charged archetypal language).

3. Digital Data Sources (Algorithm Input):

- **Communication Platforms:** Slack/Teams API (fields `channel_id`, `user`, `text`, `timestamp`). Must use aggregated, anonymized data.
- **Incident Response Reports:** NLP analysis of post-incident report narratives.

4. Human-to-Human Audit Protocol:

A psychologist or seasoned facilitator reviews the communication logs from a major incident (with identifiers removed) and identifies the emergence

of archetypal narratives. They then lead a workshop with the team to reflect on these patterns and their impact on decision-making.

5. Recommended Mitigation Actions:

- **Technical/Digital Mitigation:** (Limited) Develop a lightweight NLP bot that flags excessive use of emotionally charged, archetypal language in major incident channels and suggests a calming phrase.
- **Human/Organizational Mitigation:** Train incident commanders and team leads on group psychology and archetypes to help them recognize and gently counter these narratives in real-time (“Let’s stay focused on the process, we’re a team handling this together”).
- **Process Mitigation:** Incorporate a “narrative check” into the incident response playbook, perhaps at a major milestone, to pause and assess if the team’s story about the event is helping or hindering the response.