**Problem:** Digital Engineering Ecosystems are hindered by a reverse salient

**Methodology:**
**Apply highest leverage**

**Results:**
Seamless Digital Engineering (SDE) is a digital engineering tooling paradigm that guarantees model coherency and integrity by affording an elegant human-computer interface for systems modeling that is end-to-end formally verified down thru the computer hardware.

**Conclusions:**
- **Clean-slate design is necessary to overcome the DE reverse salient:** and a high-assurance application1 applies the greatest leverage against the current paradigm.
- We have identified a primary system quality attribute of a Seamless Digital Engineering appliance:
  1. **Seamless,** 2. **Trustworthy,** 3. **Elegant,** and 4. **Conivable.**
- Full-source bootstrap and end-to-end mechanized formal verification are required to satisfy Seamless and Trustworthy high-assurance Quality Attribute thresholds.
- **Activity-Based Computing** & language-oriented programming2 with built-in MBSE affordances help satisfy Seamless, Elegant & Conivable Quality Attributes.

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