

Innovation Lifecycle Stages

Emergence (2% success)
 Growth (10% success)
 Maturity (40% success)
 Decline/Renewal (20% success)

How Clustering Reveals Innovation Patterns at Each Stage

ML Clustering Insights Across Lifecycle:

1. Emergence: Detect weak signals and outliers
2. Growth: Identify emerging patterns and segments
3. Maturity: Build comprehensive taxonomies
4. Decline: Spot disruption and transformation

Sparse
Noisy

Growing
Clustered

Dense
Structured

**Innovation
Funnel**

100 Ideas

Fragmented
Mixed

40 Concepts

15 Prototypes

5 Products

1 Success

