

THE END OF CERTAINTY ILYA PRIGOGINE

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The End of Certainty: A Conversation with Ilya Prigogine

Part 1: Introduction and the Nature of Change

- **Question:** What is the "end of certainty" that you speak of?
- **Answer:** In the classical view, science seeks fundamental laws that govern the universe, leading to predictable outcomes. However, modern science reveals that many systems are inherently unpredictable and change in complex and nonlinear ways. This challenges our traditional notions of certainty.

Part 2: Dissipative Structures and Chaos

- **Question:** You have developed the concept of "dissipative structures." How does it relate to uncertainty?
- **Answer:** Dissipative structures are self-organizing systems that emerge from far-from-equilibrium conditions, where energy is constantly being transferred and dissipated. These structures are characterized by their ability to adapt and evolve, making their future behavior unpredictable.

Part 3: Time's Arrow and Order from Chaos

- **Question:** How does your work on "time's arrow" connect to uncertainty?
- **Answer:** Time's arrow refers to the asymmetry between past and future, which is tied to the increase of entropy. As systems evolve, they tend to

dissipate energy and move towards a state of greater disorder. This process adds further complexity and uncertainty to the future.

Part 4: Uncertainty and Scientific Knowledge

- **Question:** What are the implications of the end of certainty for scientific knowledge?
- **Answer:** It demands a shift in our approach to science. Instead of seeking absolute truths, we must embrace uncertainty and focus on understanding the probabilistic nature of phenomena. This requires a deeper understanding of systems' dynamics and their capacity for self-organization.

Part 5: The Significance of Open Systems

- **Question:** Why is the study of open systems crucial?
- **Answer:** Open systems continually exchange matter, energy, and information with their surroundings. This exchange introduces further uncertainty and complexity, highlighting the interconnectedness and dynamic nature of all systems. By studying open systems, we gain insights into the uncertainty inherent in the universe and our place within it.

The Road to Excellence: Ericsson PDF Free

Question 1: What is the "Road to Excellence"?

Answer: The "Road to Excellence" is a comprehensive guide published by Ericsson that provides insights and best practices for organizations seeking to achieve operational excellence. It covers key areas such as strategy, leadership, customer focus, and continuous improvement.

Question 2: How can I access the Ericsson "Road to Excellence" PDF for free?

Answer: The "Road to Excellence" PDF is available for free download from the official Ericsson website. Simply visit the resource center and search for the document.

Question 3: What are the key principles of the "Road to Excellence"?

Answer: The "Road to Excellence" emphasizes several key principles, including:

- **Customer Focus:** Organizations should prioritize customer satisfaction and strive to meet their needs in every way possible.
- **Continuous Improvement:** Processes and systems should be constantly evaluated and refined to drive efficiency and effectiveness.
- **Collaboration:** Cross-functional teamwork and knowledge sharing are essential for unlocking organizational potential.
- **Empowerment:** Employees should be empowered to make decisions and take ownership of their roles.

Question 4: What are the benefits of implementing the "Road to Excellence"?

Answer: Implementing the "Road to Excellence" can lead to numerous benefits, such as:

- Enhanced customer satisfaction and loyalty
- Reduced costs and increased productivity
- Improved decision-making and strategic alignment
- Increased employee engagement and innovation

Question 5: How do I start my organization's "Road to Excellence" journey?

Answer: To kick-start your "Road to Excellence" journey, consider the following steps:

- **Assess:** Evaluate your current processes and identify areas for improvement.
- **Plan:** Develop a roadmap outlining your objectives, strategies, and timeline.
- **Implement:** Execute your plan systematically and engage all levels of the organization.
- **Measure and Improve:** Regularly monitor progress and make adjustments based on feedback and data.

What is the Apache Hive used for? Apache Hive is a distributed, fault-tolerant data warehouse system that enables analytics at a massive scale. A data warehouse provides a central store of information that can easily be analyzed to make informed, data driven decisions. Hive allows users to read, write, and manage petabytes of data using SQL.

Is the Apache Hive a programming language? Apache Hive is a data warehouse software project. It is built on top of Apache Hadoop for providing data query and analysis. Hive gives an SQL-like interface to query data stored in various databases and file systems that integrate with Hadoop.

Is Apache Hive open source? Apache Hive is open-source data warehouse software designed to read, write, and manage large datasets extracted from the Apache Hadoop Distributed File System (HDFS) , one aspect of a larger Hadoop Ecosystem.

Is Apache Hive easy to learn? Apache Hive vs. Apache Hive and Apache Pig are key components of the Hadoop ecosystem, and are sometimes confused because they serve similar purposes. However, Apache Hive leverages SQL more directly and thus, is easier for database experts to learn.

Is Apache Hive outdated? While Hive as a query engine is mostly dead today, having been replaced by several other more advanced technologies, the key concepts it brought with it are very much still with us today.

Where can I learn Hive?

Is Hive a database or not? It's important to note Hive is not a relational database, a type of database that organizes data into tables based on related points. Rather, Hive organizes data into similar tables based on unit size. These tables are made of separate partitions to divide tables into different parts based on data information.

Who uses Apache Hive?

How do I start Apache Hive?

How much does Hive database cost?

How to connect to Apache Hive?

What is the purpose of a Hive? The Hive is Home Different types of bees use different methods to build hives, depending on their habitat and social structure. Regardless of the type of hive that is built, however, they all serve the same purpose: They exist as the bees' home and to protect the queen bee and larvae.

Who uses Apache Hive?

What is Hive good for? Control your smart home heating wherever you are with the Hive app. Boost the temperature, set schedules and get instant alerts if you've gone out and left the heating on. It'll even protect against costly frozen pipes in winter – and continue to save energy while you're on holiday too.

What is Hive software used for? Hive is a cloud-based project management software that any size of business can use to manage teams, collaborate, plan projects, assign tasks, and automate workflow processes. Our reviewers evaluate software independently.

Why David Sometimes Wins: Leadership Strategy and Organization in the California Farm Worker Movement

By Marshall Ganz

May 2009

Introduction

The victories of the United Farm Workers (UFW) against overwhelming odds have been a source of inspiration and study for social movement strategists for decades. This article explores the leadership strategy and organizational model that played a crucial role in the UFW's success.

Question: What was the key leadership strategy employed by the UFW?

Answer: The UFW's strategy centered around "relational organizing," which focused on building deep relationships with community members and empowering them to lead their own movement. By listening to workers' stories and understanding their

needs, organizers were able to mobilize a grassroots movement that could sustain itself over time.

Question: How did the UFW organize its members?

Answer: The UFW adopted a "membership-based model" of organization. This meant that workers were not simply passive recipients of services, but active participants in the movement. Through house meetings, leadership training, and other activities, workers developed a sense of ownership and agency.

Question: What role did training play in the UFW's success?

Answer: The UFW invested heavily in leadership training. Workshops and assemblies focused on developing workers' critical thinking skills, communication abilities, and understanding of social justice. By empowering members with knowledge and skills, the UFW created a cadre of leaders who could effectively advocate for their rights.

Question: How did the UFW sustain its movement over time?

Answer: The UFW's "strategic flexibility" allowed it to adapt to changing circumstances. When direct action tactics failed, the movement turned to boycotts and consumer pressure. By diversifying its strategies, the UFW was able to maintain momentum and pressure on growers.

Conclusion

The UFW's leadership strategy and organizational model provide valuable lessons for social movements today. By fostering relationships, empowering members, and investing in training, organizers can create sustainable movements that can overcome even the most formidable challenges. The "Why David Sometimes Wins" framework reminds us that even underdogs can achieve victory through collective action and strategic leadership.

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