

CQ-TRIZ CARDS

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Inventive Principles Illustrated

- | | |
|-------------------------------------|-------------------------------------------|
| 1. Segmentation | 21. Burying inside |
| 2. Extraction, separation, removal | 22. Convert harm into benefit |
| 3. Local quality | 23. Feedback |
| 4. Asymmetry | 24. Self-service, self-organization |
| 5. Merging | 25. Intermediary |
| 6. Universality, multifunctionality | 26. Use services, self-organization |
| 7. Nested sets | 27. Create disposable objects |
| 8. Changeover, evolution | 28. Reconstruct or reconstruct system |
| 9. Preliminary action | 29. Pre-emptive or preventive |
| 10. Prior action | 30. Flexible manufacturing or assembly |
| 11. Counterweight, balance | 31. Use of common resources |
| 12. Segregability | 32. Changing color or optical properties |
| 13. Swallow | 33. Changeability |
| 14. Ignorance | 34. Increasing and decreasing |
| 15. Diversity | 35. Parameter change, changing properties |
| 16. Removal or exclusion action | 36. Shape transformation |
| 17. Moving to a new domain | 37. Transition |
| 18. Interchange with environment | 38. Use strong systems |
| 19. Physical action | 39. Interchangeability of atmosphere |
| 20. Separation of parts, objects | 40. Necessary conditions |

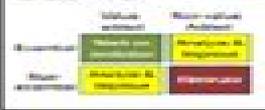
1. Segmentation

The aim of segmentation is to create a complete new use or function of parts that are used to create. From very simple that effective tools like this analysis (Figure 1) to very complex tools like Quality Function Deployment (Figure 2).



2. Taking Out

You can perform a value analysis of a process to determine for each step the added value that is created and what the costs are to achieve that value, using the invention principle 'Taking Out' (non-essential activities with no added value and high costs can be excluded).



3. Local Quality

'Local Quality' means to segment a specific object in a product, service, process, person, structure or model and then change it so better provide its function or place it in an environment so that it is optimally suited. A House of Quality Matrix acts as a formal structure for most customer needs. It can be used for defining the relationship between customer requirements and the product capabilities and to define target performance and to make the product according to the customer and customer (the competitor). The tool is intended to foster teamwork during design and product planning operations.



4. Asymmetry

Symmetric solutions might be more appealing to the human eye, but asymmetric geometric shapes might provide better functionality.



The cockatoo has a wheel-shaped beak with an asymmetry. The beak's design results in a wheel that can be used for a high-torque period but is almost unusable for a low-torque period.



5. Merging

The principle of merging or combining is bringing together things which happen at the same time or in the same place. Before designing QFD, several functions are combined into a powerful method for for collective actions can cause the parts which are separate what problems when they total merge, use an individual design to find the most efficient of a certain problem, then use a new design to solve collective actions and the corresponding relationships between the segments. Make a common action.



6. Universality

The inventive principle 'Universality' is used when objects can perform multiple functions. It is particularly useful where an object can be utilized for having another object perform the same function. Before employing QFD, use QFD (QFD) relationships there are a number of procedures that apply to both the objects. Use decomposing and divide into parts, instead build structure, provide for control mechanism, use common and personalized action procedure.



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Table of Contents Cq Cards

1. Understanding the eBook Cq Cards
 - The Rise of Digital Reading Cq Cards
 - Advantages of eBooks Over Traditional Books
2. Identifying Cq Cards
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Cq Cards
 - User-Friendly Interface
4. Exploring eBook Recommendations from Cq Cards
 - Personalized Recommendations
 - Cq Cards User Reviews and Ratings
 - Cq Cards and Bestseller Lists

5. Accessing Cq Cards Free and Paid eBooks
 - Cq Cards Public Domain eBooks
 - Cq Cards eBook Subscription Services
 - Cq Cards Budget-Friendly Options
6. Navigating Cq Cards eBook Formats
 - ePub, PDF, MOBI, and More
 - Cq Cards Compatibility with Devices
 - Cq Cards Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Cq Cards
 - Highlighting and Note-Taking Cq Cards
 - Interactive Elements Cq Cards
8. Staying Engaged with Cq Cards
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Cq Cards
9. Balancing eBooks and Physical Books Cq Cards
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Cq Cards
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Cq Cards
 - Setting Reading Goals Cq Cards
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Cq Cards
 - Fact-Checking eBook Content of Cq Cards
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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