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# What the devil is Organizational Culture?

### **Organizational Culture is**

- 1) Practices
- 2) Thoughts
- 3) Feelings
- 4) Symbols

All these are important, But let's use another index: The Flow of Information





- 1) Information is the <u>lifeblood</u> of organizations
- 2) Information is also a powerful <u>index</u> of how an organization functions

# An <u>information flow culture</u> reflects how managers shape values and behavior





- 1. Generative -- high flow
- 2. Bureaucratic -- medium flow
- 3. Pathological -- low flow

### Pathological Flow

Low cooperation/high conflict

**Emphasis on taking care of the leaders** 

**Strict boundaries** 

Messengers are shot

Low creativity

### In other words: A toxic environment



### **Bureaucratic Flow**

**Modest Cooperation** 

**Emphasis on Rules and Regulation** 

**Problems with Silos** 

Messengers are tolerated

**Conflicts are tamped down** 

**Creativity allowed** 

### The Spirit of Bureaucratic Flow



### **Generative Flow**

**High Co-operation** 

**Emphasis on the Mission** 

**Boundaryless organization** 

Speaking up is encouraged

**Psychological safety** 

**High creativity** 

### How Generative Flow Works



#### So let me emphasize one of these features: Psychological Safety

The <u>Aristotle project</u> at Google studied what made for an effective team. The number one feature of an effective team was <u>Psychological Safety</u>. This is the ability to speak your mind without fear of punishment. When communication is easy, there is more of it.

### But it is also the <u>right kind</u> of communication

I like to say that a high flow of communication has these characteristics:

- 1. It is timely
- 2. It is easy to understand
- 3. It meets the <u>receiver's</u> needs

### A classic example: The bottle of champagne

During the famous Redstone Rocket project (one of NASA's first), a prototype went off course and crashed. Werner von Braun, head of the project, tried to figure out, by many analyses, what had happened. The analyses did not suggest a cause. Now they were going to have to start from scratch to re-design the missile. But then, an engineer came to von Braun, and he said, "I think I did it." 'But how?" von Braun wanted to know.

### The question is answered!

"Well," said the engineer, "I touched a part of the circuit with a screwdriver and got a spark. I checked, and the circuit seemed to be fine. But maybe that was the problem." It turned out that was the problem.

Thus the problem was solved, and von Braun sent the engineer a bottle of champagne.

So, what would happen in your organization when an engineer admits to making such a big mistake?

### Generative cultures are often found in high performance organizations

- 1. They are common in <u>high reliability</u> systems, that require greater cooperation for success.
- 2. They are often typical of <u>elite military units</u>, whose cooperation is legendary, e.g. the navy Seals
- 3. They are often seen in consumer and service industries when exceptional consumer satisfaction is the goal
- 4. They are often led by **technological maestros**

#### Just a word about "technological maestros"

The word was coined by Arthur Squires in his book <u>The Tender</u> <u>Ship</u> about technical leadership In WWII. And it meant top leaders had:

**Technical Virtuosity** 

**High Energy Level** 

**Ability to grasp the Key Questions** 

Ability to grasp the Key Details

**High Standards** 

A Hands-On Attitude

#### A maestro: The Citicorp Building

In June 1978, an engineering student called an architect named William LeMessurier, who had designed key parts of the Citicorp building in downtown New York. The 57-floor building had an unusual footprint, and the student wanted to know whether the building was stable or not. Was it going to be stable in a high wind? LeMessurier assured the student that it would be stable, and he personally had designed a special mass damper on the top floor to steady it. But then he had a second thought. And that thought was that, if the building was built according to specifications, there would be no problems. But had it actually been built that way?

### Using "requisite imagination"

So LeMessurier called the builder. Well, the builder said, they had pretty much followed the plans that they had been given. But there was one detail that was different. They had used <u>rivets</u> instead of welds to hold the building together. On a short building this would not matter, but on a 57-story building a quartering wind strong enough would bring down the building. How often did such a wind show up? About every sixteen years turned out to be the answer. So they had to fix it.

### So they fixed it.

They told the newspapers about it, but asked them to hold the story. So, for several months, after the secretaries had gone home at night, contractors pulled off the wall panels, and welded the girders together. After they fixed the structural problem, then the newspapers published what had happened.

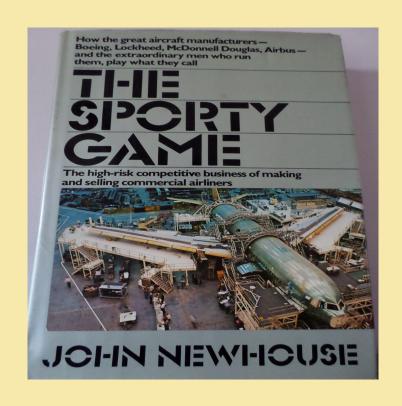
Oh, by the way, "requisite imagination?" It is the fine art of anticipating what might go wrong. So here is a prime example of "requisite imagination."

And remember, "mastering the key details" is one trait of a maestro.

Maestros build Generative Information Flow. And this creates the complex Web that allows the organization to build things.



### **Building Airliners is big business**



### Westrum's Law

"The Higher the Stakes, the rougher the play"

### So, when Boeing builds airliners...

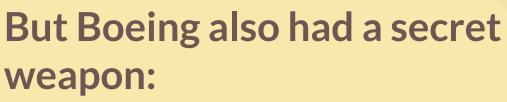
It is rough play, involving very high stakes, and thus high risk. Yet Boeing did it well for many decades

#### **Examples:**

Stratoliner Stratocruiser 707 727 747 777



Well Boeing had a lot of money, a lot of people, and a lot of machines



The <u>culture</u> that held all these assets together, a culture, "like a family" ----In spite of crises like business downturns, etc.



Any company that manufactures something as large and complicated as a jet airliner forms a *complex* human web of knowledge.

# Take this Cultural Capital



Led by a Technical Maestro

Alan Mulally

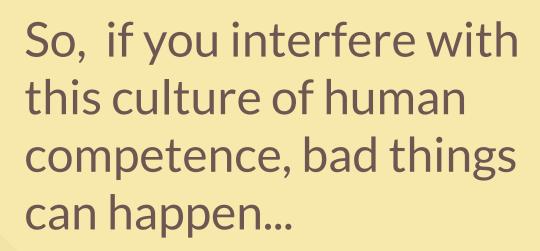


# And you get planes like the Boeing 777--- A marvel of precise engineering



Understand that this human web of knowledge and competence is fragile and may degrade under rough handling.





And at **Boeing**, this seems to be what happened. After Boeing merged with McDonnell-Douglas the merger caused damage that undercut the web of manufacturing know-how.

#### **Boeing merges with McDonnell-Douglas**

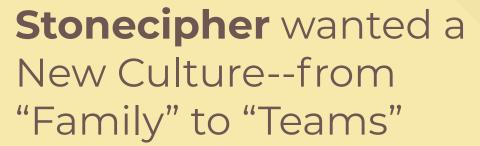
1997

Carl Condit of Boeing listens to Harry Stonecipher of McDonnell-Douglas



And as Boeing's culture went out the door, its aircraft maestro Alan Mulally went to Detroit.

Harry Stonecipher of McDonnell-Douglas soon became the new CEO of Boeing. Under him the culture rapidly declined.





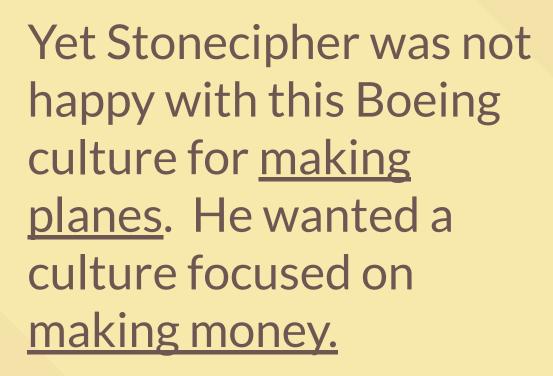
One employee told Harry Stonecipher: "My god, Harry, don't you know you're changing the culture of Boeing?"

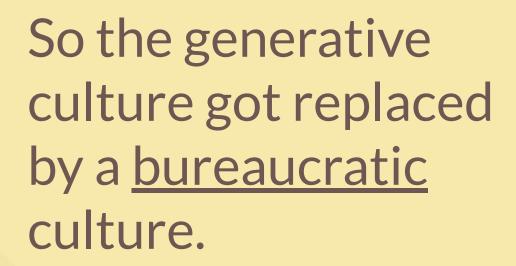
Stonecipher leaped in the air and said, "My God, that's what we want to do!"

That's what Stonecipher did.
But was it a good idea to do it?
What culture was being
replaced? And what would
take its place?

Suppose that Boeing's great accomplishments had only been possible thanks to its culture. What was this culture?

Boeing's employees described it as being like a "family." But this culture was actually a high cooperation generative culture



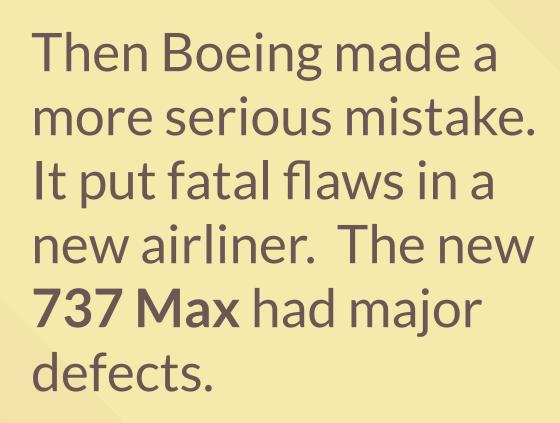


But the former culture had been the key to Boeing's success. So, as the price of Boeing's stock went up, the value of its technical product fell.

The Dreamliner was beautifully designed, but messed up on batteries and other manufacturing issues



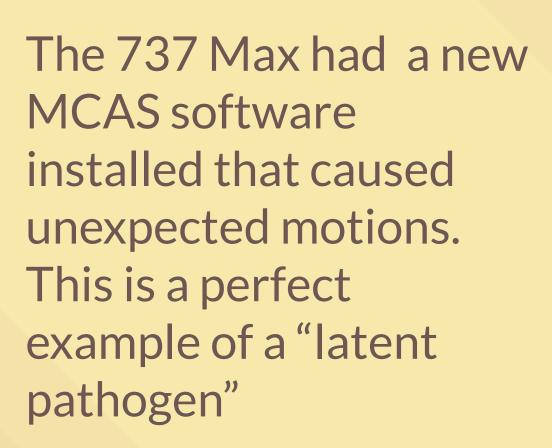
Stonecipher, meanwhile, left Boeing in 2005. Other CEOs followed, but success did not return.





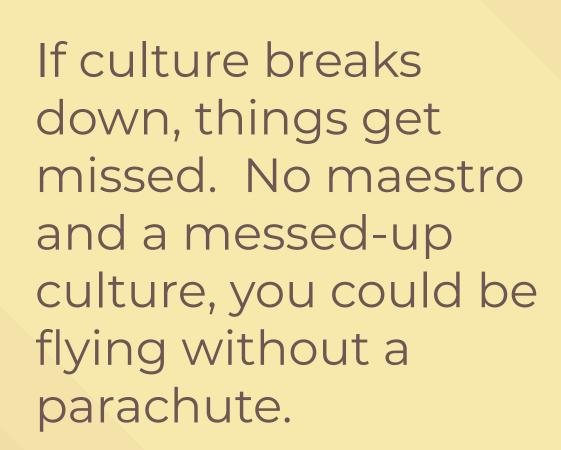
## This airliner <u>had</u> to work. But it didn't.





Pilots should have been trained for the new software, but they were not. The *full toolkit* of the knowledge to operate the plane was not supplied.

One U.S. pilot, after suffering from MCAS problems, said "I am left to wonder: what else don't I know? The **Flight Manual** is inadequate and almost criminally insufficient"



## The flaws in the 737 Max soon led to two crashes, killing 345 passengers



A broken culture had led to a broken airliner project. And a huge reputational OSS.



The most obvious one is that if you have a working culture, don't mess with it! And if your culture is not working, you better find out how you can fix it.

And if you don't know whether your culture is working or not, shouldn't you find out?

## Thank you for listening!