

Creativity Techniques for Small Business

UNM Rainforest Innovations

May 18, 2021

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(speaker bio included on last page)

Top Creativity Models and Techniques

- Brainstorming
- Six Hat Thinking
- Forced Analogy
- Morphological Forced Connections
- S.C.A.M.P.E.R.
- Backward Planning
- The Five Whys: Root Cause Analysis



“Entrepreneurs have a mindset that sees the possibilities rather than the problems created by change.”

J. GREGORY DEES



SIX CHARACTERISTICS OF THE ENTREPRENEURIAL MINDSET



Seeing and creating opportunities

creative thinking, innovation strategy, not being content with the status quo, and finding the right measures for success.



Turning ideas into action

implementing innovation strategies, creating the right pace for change, balancing innovation and operational effectiveness, personal and team effectiveness.



Leading the way

leadership and delegation, employee engagement, developing an entrepreneurial mindset in others and removing barriers to entrepreneurial approaches.



Using resources smartly

developing a culture of innovation, commercialisation, smart use of available resources, incentives and rewards for new ways of working.



Managing risk

changing from a risk averse culture, learning from failure, anticipating and overcoming likely barriers, encouraging and supporting risk taking in higher education



Collaborating to create shared value

building internal and external networks, engaging with business and industry, creating economic, social and cultural value, evidence of impact.

Seeing the World Through New Eyes

Several years ago, I heard a fictional story about a group of aliens who were visiting the Earth for the first time...

The aliens made several observations and reported back that the Earth was inhabited by “metallic creatures” called cars. Each car owned at least one two-legged slave who cared for it. Each morning, the slave would wake up the car and take it to its social club, a parking lot, to be with other cars. Meanwhile, the slave would go to work to earn money to take care of the car and at the end of the slave’s work day, the car would bid farewell to its friends at the parking lot and the slave would take it back home. When the car was hungry, the slave would take the car to a gas station for nourishment. And on days when the slave was not making money for the car, the slave would wash it or take it for a drive to show it a lot of different places.

The story cleverly pointed out that, viewed by new eyes, alien eyes, the world could be interpreted in very different ways.

Problems = Profits

Parking Congestion on Campus

- Create a “realtime” APP showing open parking spots or where the various buses are enroute.
- Work with local homeowners to rent their driveways
- Create a car that can be folded up and easily carried to class.
- Develop a campus-wide subway system or above ground UNM Monorail (like Disneyworld).
- Offer rental bicycles, Segways or skateboards that are available at various distribution points around campus... pick one up at one location and drop it off at another.
- Offer more online courses so students don't need to come to campus.
- Offer a hotel-like concierge service!

MU/P Ratio



The diagram illustrates the MU/P Ratio equation. On the left, the word "Value" is positioned next to an upward-pointing arrow. To the right of "Value" is an equals sign. Further right is a fraction where the numerator is "Marginal Utility" and the denominator is "Price", separated by a dashed horizontal line. To the right of the fraction, there are two arrows: an upward-pointing arrow above a downward-pointing arrow.

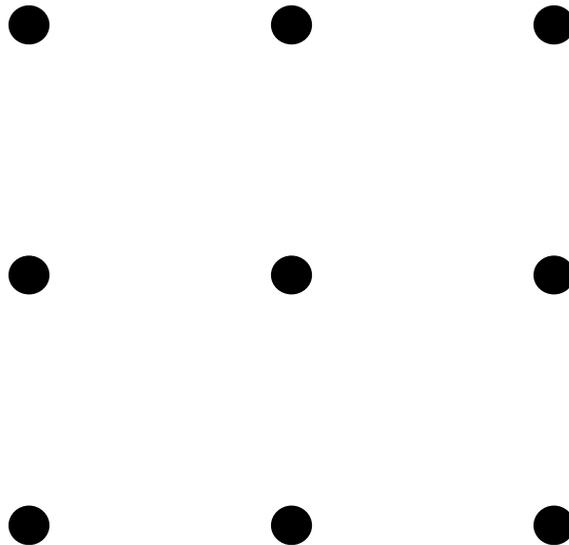
$$\text{Value} = \frac{\text{Marginal Utility}}{\text{Price}}$$

(Driven by WIIFM)

Creativity Exercise

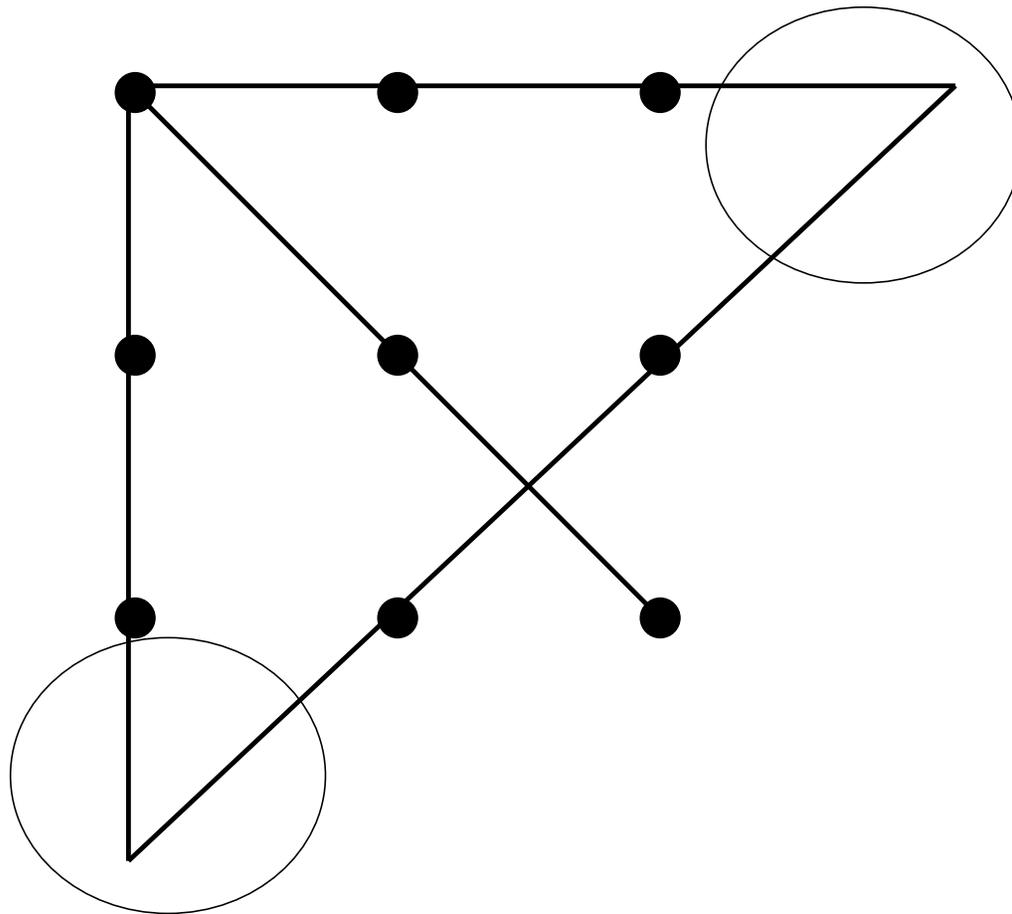
Connect The Dots

Using a pen or pencil, connect the dots with only four lines. Start at one dot and connect all of the dots without lifting your pen or pencil from the paper. You may cross a dot more than once. Good luck!

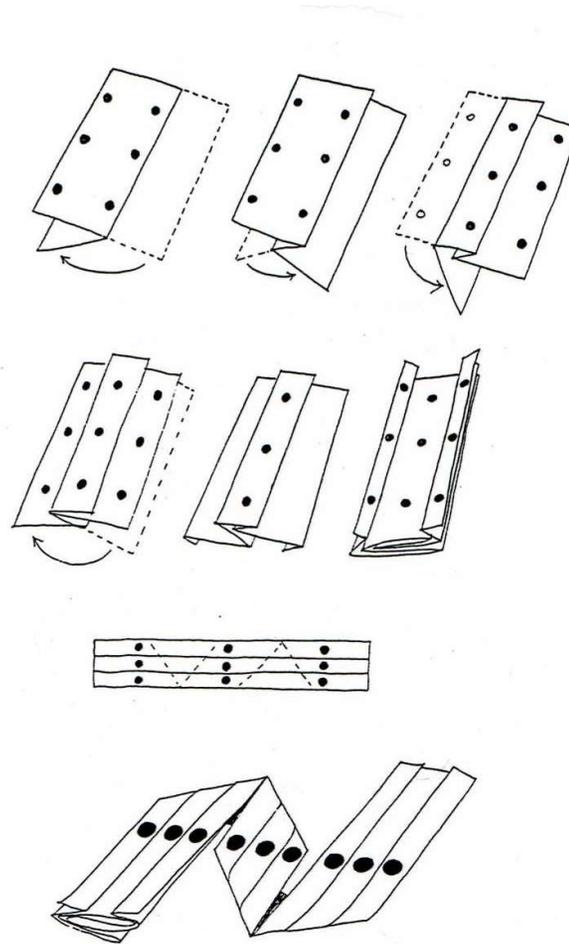


The Solution

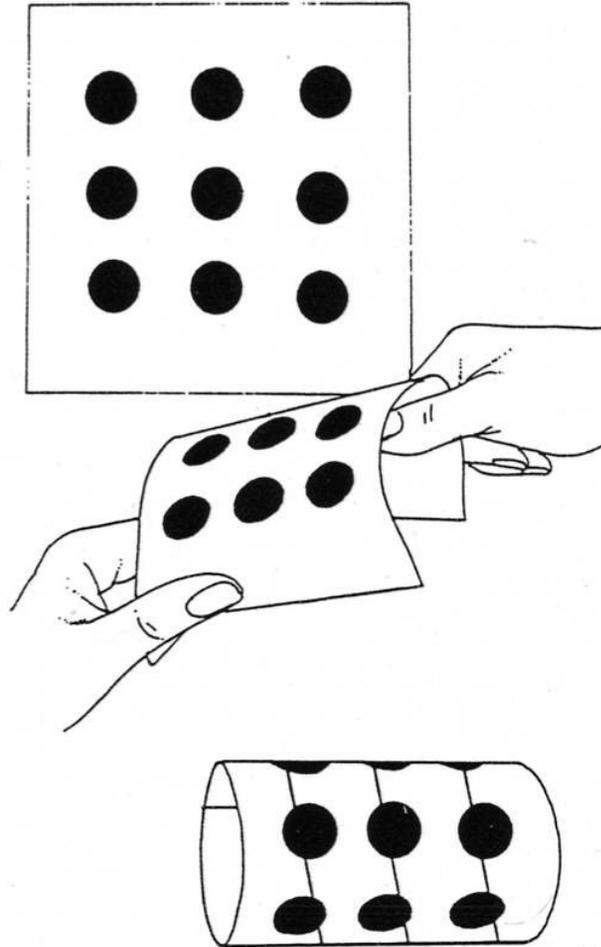
Thinking Outside the Box



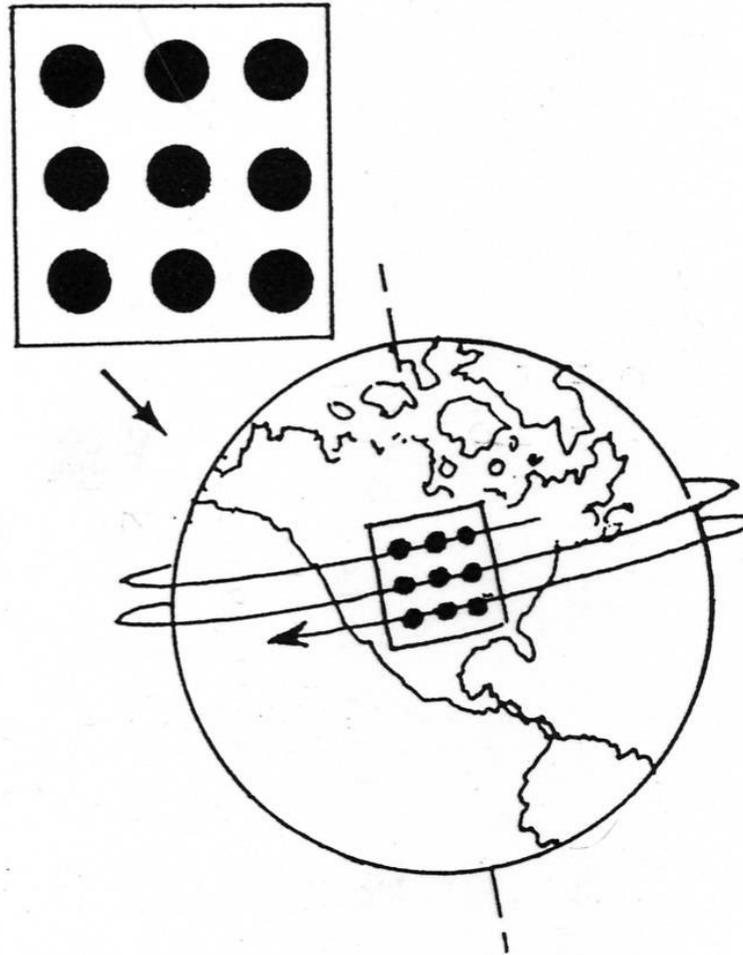
An Alternative Solution



An Alternative Solution



An Alternative Solution



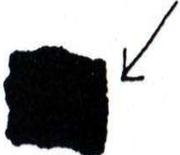
"A Fat Line"

May 30, 1974

5 FDR ^{Navasa}
Roosevelt Rds. ~~WA~~
Ceiba, P.R. 00635

Dear Prof. James L. Adams,
My dad and I were doing Puzzles
from "Conceptual Blockbusting". We
were mostly working on the dot ones, like
::: My dad said a man found a way
to do it with one line. I tried and did
it. Not with folding, but I used a fat line.
I doesn't say you can't use a fat line.
Like this

P.S.


acctually you
need a very fat
wrriting apparatice

sincerely,
Becky Buechel
age: 10

Brainstorming

- Description:
 - Used to develop novel ideas to solve a problem in a low-conflict environment
 - Team members are encouraged to participate by “not judging” any ideas presented
- Process:
 - Clearly state a problem to resolve, or question to answer
 - Write down ideas as they occur **without judging them**
 - Judge them later (in terms of feasibility, cost, time, etc.)
- Example:
 - Choose a problem and “brainstorm” ideas to solve it...

Discouraging Words

The next time your ideas are met with words of discouragement, remember that most of the great inventors had to fight a similar battle before their ideas were accepted. Take, for example, some of the more famous, yet misguided, comments made through history:

- "This 'telephone' has too many shortcomings to be seriously considered as a means of communication. The device is inherently of no value to us." Western Union internal memo, 1876.
- "Heavier-than-air flying machines are impossible." Lord Kelvin, President, Royal Society, 1895.
- "I think there is a world market for maybe five computers." Thomas Watson, Chairman of IBM, 1943
- "We don't like their sound, and guitar music is on the way out." Decca Recording Co., rejecting the Beatles, 1962.
- "So we went to Atari and said, 'Hey we've got this amazing thing, even built with some of your parts, and what do you think about funding us? Or we'll give it to you. We just want to do it. Pay our salary, we'll come work for you. And they said, 'No.'" So then we went to Hewlett-Packard, and they said, 'Hey, we don't need you. You haven't go through college yet.'" Apple Computer Inc. founder Steve Jobs on attempts to get Atari and Hewlett-Packard interested in his and Steve Wozniak's personal computer.
- "The concept is interesting and well-formed, but in order to earn better than a 'C', the ideas must be feasible." A Yale University management professor in response to Fred Smith's paper proposing reliable overnight delivery service. Smith went on to found Federal Express Corp.
- "A cookie store is a bad idea. Besides, the market research reports say America likes crispy cookies, not soft and chewy cookies like you make." Response to Debbie Fields' idea of starring Mrs. Fields' Cookies.

When you encounter those proverbial "nay-sayers", stand firm, believe in yourself and push even harder! Remember Benjamin Franklin's words... "A kite rises against the wind, not with it".

No Judging

Negative Thinking	Response
It won't work.	How will we know unless we try it?
We've never done it before.	That's the best reason for doing it now.
It isn't in the budget.	Budgets represent yesterday's planning.
We're not ready for that.	When <u>will</u> we be?
Let's think about some more.	Time is money.
You can't teach an old dog new tricks.	Event a new dog can't be taught new tricks if he doesn't' want to learn.

Six Hat Thinking

- Description:
 - Used to make better decisions by evaluating their consequences from various different perspectives in a controlled environment.
 - Tool was created by Edward de Bono in his book *6 Thinking Hats*
- Process:
 - Participants wear different color hats to surface different viewpoints including both positive and negative comments
- What Does Each Color Mean?
 - Black = Black reminds us of a judge's robes, what risks are you concerned about?
 - Blue = The blue hat looks at the thinking process, what should we do next?
 - Green = Green suggests vegetation, growth, life, novel or alternative uses?
 - Red = Red suggests fire and warmth, how do you feel about it?
 - White = White suggests paper, what information do we need?
 - Yellow = Yellow suggests sunshine and optimism, what are its benefits?

Forced Analogy

- Description:
 - Used to solve a problem and gain new insights by comparing it to another problem (especially one that has been resolved previously)
- Process:
 - Group participants seek out another process that has some similarities to the problem under consideration to seek out alternative solutions.
- Example:

Human Body

- Biological system
- Internal organs work in concert
- Temperature
- Holistic medicine focusing on lifestyle
- Critical mechanisms
- Preventative medicine

Los Angeles

- System of humans
- Dependent organizations
- Tension (Riot)
- Take long term view of city's health
- Community links
- Preventative actions

Morphological Forced Connections

- Description:
 - Used to develop new product ideas by determining the viability of every possible combination of a product's attributes
- Process:
 - Choose a product or service to dissect and then list the key attributes or ingredients that make up that product
 - Below each attribute, place as many alternates as you can think of
 - Make random runs through the alternates picking up a different ones from each column and assembling the combinations into entirely new forms of your original subject
- Example: Inventing a new automobile configuration

Shape	Wheels	Fuel	Material
Square	Four	Gas	Metal
Aerodynamic	One	Electricity	Plastic
Sphere	Track	Bio-Fuel	Ceramic
Body Suit	Anti-Gravity	Garbage	Invisible

Build a New Taco

Circle the ingredients you would like to include in your new food offering.

Tortilla	Prep	Shape	Protein	Garnishments
Corn - Blue	Breaded	Bowl	Beans	Avocado
Corn - Yellow	Fried	Covered	Beef	Beans
Flour - Rice	Grilled	Flat	Chicken	Cabbage
Flour - Wheat		Folded	Chirozo	Cheese
		Puffed	Egg	Chile - Red or Green
		Rolled	Ham	Cilantro
			Lamb	Coleslaw
			Pork	Guacamole
			Seafood	Jalapeno
				Lettuce
				Lime
				Mole Sauce
				Onions
				Pico de Gallo
				Rice
				Salsa
				Sour Cream
				Tomatoes

Creativity Exercise:

Product Name:

Target Market:

Slogan/Jingle:

Backward Planning

Similar to taking a plane flight, first define your desired end result and then plan all of the steps necessary to achieve your objective.

- 7:30 am SW Flight #1000 departs for Phoenix, AZ
- 6:30 am Check in at counter
- 6:20 am Arrive at Abq Int'l airport via shuttle bus
- 6:00 am Park in long-term parking
- 5:30 am Leave house
- 4:30 am Wake up, shower, dress, short breakfast

Night before - Pack suitcase and hanging bag including book to read

24 hours ahead – Get seating assignment online

4 weeks ahead – Purchase tickets, make hotel reservations, purchase tickets

6 months ahead - request time off from work

The Rocks in Your Life

Unknown Author

A philosophy professor stood before his class and had some items in front of him. When class began, wordlessly he picked up a large empty mayonnaise jar and proceeded to fill it with rocks. Rocks about 2" in diameter. He then asked the students if the jar was full? They agreed that it was.

The professor then picked up a box of pebbles and poured them into the jar. He shook the jar lightly. The pebbles, of course, rolled into the open areas between the rocks. He then asked the students again if the jar was full. They agreed it was. The students laughed.

The professor then picked up a box of sand and poured it into the jar. Of course, the sand filled up everything else. "Now," said the professor, "I want you to recognize that this is your life. The rocks are the important things - your family, your partner, your health, your children - anything that is so important to you that if it were lost, you would be nearly destroyed. The pebbles are the other things that matter like your job, your house, your car. The sand is everything else. The small stuff."

"If you put the sand into the jar first, there is no room for the pebbles or the rocks. The same goes for your life. If you spend all your energy and time on the small stuff, you will never have room for the things that are important to you. Pay attention to the things that are critical to your happiness. Play with your children. Take time to get medical checkups. Take your partner out dancing. There will always be time to go to work, clean the house, give a dinner party and fix the disposal."

"Take care of the rocks first - the things that really matter. Set your priorities. The rest is just sand."

7 STEPS to GREAT BUSINESS IDEAS

SCAMPER is a framework designed to help you come up with fresh ideas, whether for a product, a service or a process, by starting with something that already exists and subjecting it to 7 areas of questioning. Below are the 7 areas and sample questions to get you to the solution you're seeking.

SUBSTITUTE

- Other properties?
- Other time/place?
- Other people?
- Other feelings/attitude?



COMBINE

- One product with another?
- Purposes/objectives?
- Talents/resources?
- Steps/activities?



ADAPT

- To a different context?
- Using borrowed features?
- Using ideas outside your field?
- To another market/situation?



MODIFY/AGNIFY

- Features/steps?
- Physical qualities?
- Size/duration/pricing?
- Frequency?



PUT TO ANOTHER USE

- For other users?
- To solve other problems?
- Using the by-products?
- To work elsewhere?



ELIMINATE

- How to simplify?
- What are non-essentials?
- Make it smaller?
- Reduce cost/time/effort?



REVERSE/REARRANGE

- Interchange components?
- Use another order?
- Reverse everything?
- Exchange roles?



The Five Whys: Root Cause Analysis

- A technique for continuous improvement of company process
- Ask “Why” five times when something unexpected happens
- Behind every supposed technical problem is usually a human problem.
- Fix the cause, not just the symptom.

Problem Statement
"The vehicle will not start"

Why 1

The battery is dead.

Why 2

The alternator is not functioning.

Why 3

The alternator belt has broken.

Why 4

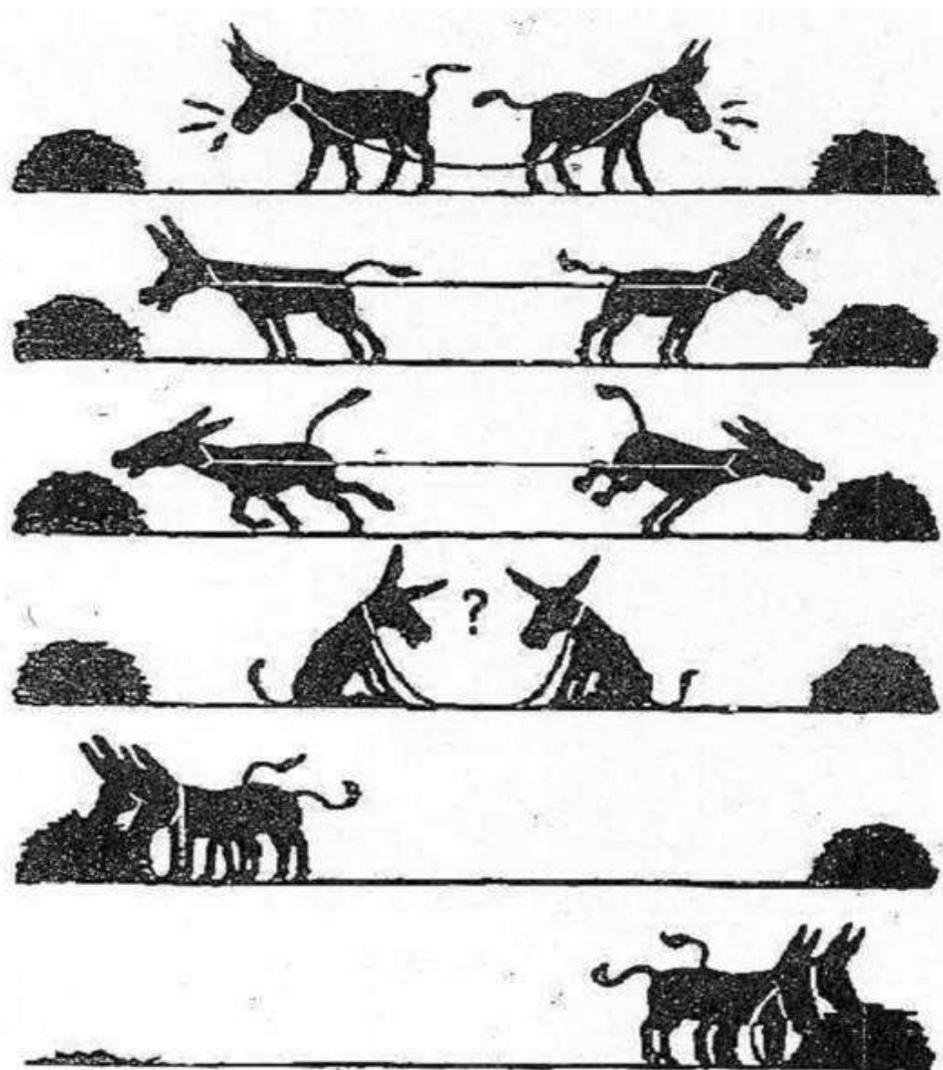
The alternator belt was well beyond its useful service life and not replaced.

Why 5

The vehicle was not maintained according to the recommended service schedule.



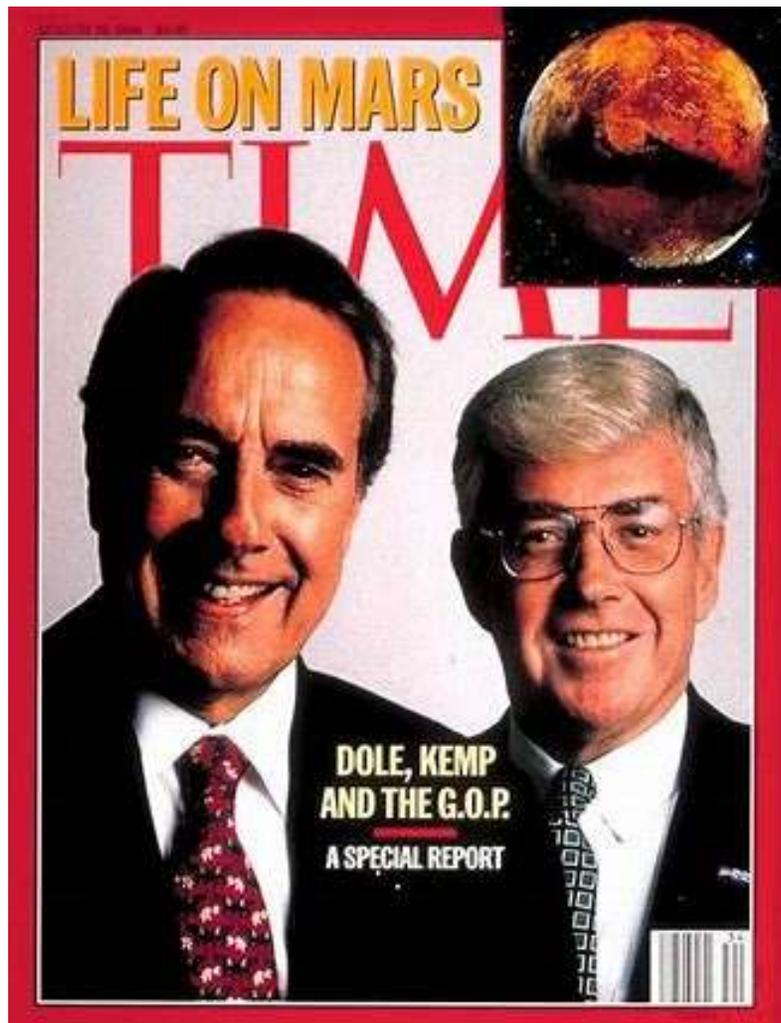
Win / Win



Fun Ideas

- Artomat: - Art Vending Machine
- Customer Cap
- ELMO – Enough, Let's Move On!
- Skunk (idea smells bad) vs. Honey Bee
- Creative Whack Pack
- Toastmasters Table Topics Conversation Cards
- Clown Nose, Antenna, etc.
- Up With People Alumni Tele-Survey
 - 3 Question Postcard vs. 3 Page Survey
 - 643 So Cal Alumni, from 27 responses to over 200
- Up With People Alumni Newsletter
 - Emails vs. Fill in your own Square
- Top Ten Teachers

“Give it Back Better Than You Got it”



Jack F. Kemp
1935-2009

U.S. Presidential Candidate

U.S. HUD Secretary

U.S. House of Representatives (NY, 1971-1989)

Quarterback, NFL and AFL Teams

Brainstorming Exercise

What is the biggest challenge you face right now?

Appendix

Market Share Analysis

Greater Albuquerque Chamber of Commerce

<u># Employees</u>	<u># Companies</u>	<u># Members</u>	<u>% Share</u>
250 or more	214	43	20.1%
100-249	476	79	16.6%
50-99	866	22	2.5%
20-49	2,034	168	8.3%
10-19	2,575	297	11.5%
5-9	2,662	391	14.7%
1-4	6,709	1,829	27.3%
Total	15,408	2,829	18.4%

How I Reinvented The Chamber's Sales Processes

- Sales to “Start-ups”:
 - Reassigned Secretary to make initial calls, manage prospect database, schedule appointments, and follow-up with marketing collateral
 - Replaced Activity Reports with (call in) “Results” Reports
 - Launched Sales Training Program
- Sales to “Larger Employers”:
 - Launched Member-to-Member “Spear-It” Campaign
 - Asked Board Members to accompany Sales Reps on calls (Member who brought in most sales, won a trip to Napa, 2nd and 3rd place winners received cases of wine)
 - Prospects were excited to meet board members, many of whom were CEOs of major local companies
 - Account Execs earned commissions for completed sales

UNM - Providing Critical Business Education

- UNM Anderson School of Management
 - Educational programs to expand skills, improve performance, etc.
 - Bachelor's and master's degree programs
 - Career and professional development training
 - Customized leadership training programs
 - Assist with Student Internships:
 - UNM and Anderson Career Services Offices
- UNM Small Business Institute:
 - Connect local businesses to MBA student teams to conduct market research, prepare business and marketing plans
 - Guided by a faculty member
 - Access to library of scholarly data, research reports
 - Valuable experiential learning experience for students
- UNM Rainforest Innovations:
 - Create, Sell, Bank!
 - Entrepreneurial Capabilities Certificate (7 Webinars)

UNM Rainforest Innovations Certificate Program Topics

<http://loborainforest.com/nmrainforest/videos/>

- **Getting Started:**
 - Business Idea Generation
 - Business Strategy Matrices
 - How to Start and File an LLC
 - Pathways to Success – Small Business Ownership
 - Taxes and Business Startups
- **Customer Discovery & Product Development:**
 - Business Model Canvas
 - Carrying Out Customer Discovery in a Virtual World
 - Collaborative Problem Solving Through Design Thinking
 - Go-to Market Strategies for Entrepreneurs
 - Intellectual Property 101
 - Market Analysis
 - Product Design – Making It Real
 - Strategies for Designing, Creating, or Renovating Your Business Model
 - Success by Design: The First 5 Steps to Launching a Successful Business
 - Sustainable Business Practices to Achieve Business Longevity
 - Talking to Your Customer – The Why and How
 - Virtual Start-up Boot Camp #1 – What? So What? Therefore!
- **Intellectual Property:**
 - Intellectual Property 101
 - USPTO University Outreach Series with Director Iancu
 - Patent Protection in 2021, a Primer

UNM Rainforest Innovations Certificate (Cont.)

<http://loborainforest.com/nmrainforest/videos/>

- **Networking and Pitching Your Idea:**
 - Taxes and Business Startups
 - How to Network Virtually
 - How to Write, Practice and Record Your Pitch
 - Networking and Business Development
 - Pitching and Presenting Your Idea!
 - Strategic Networking: Maximizing Your Connections to Grow Your New Business
 - Virtual Boot Camp #1 – The Pitch
 - Virtual Boot Camp #2 – Pitch Deck Magic!
- **eCommerce:**
 - Selling Without a Store
 - Sustainable eCommerce Business for Students
- **Financing:**
 - Drinking Beer at the Bar – Finding Deal Flow
- **COVID-19 Resources:**
 - COVID-19 Business Relief Provisions
 - Tapping into Native Business Resilience Moving Forward
- **Other Videos:**
 - What is the NM Rainforest EDA University Center Program?
 - The Next Level Navigator ®
 - UNM-Gallup University Center Info Session and Meet a Mentor

For More Information

- ALGA New Mexico (Association for Design), <https://newmexico.aiga.org/>
- American Creativity Association, <https://www.actcreatively.org/>
- Coffee + Creatives, Abq, <https://www.facebook.com/groups/coffeepluscreatives/>
- Creative Santa Fe, <https://creativesantafe.org/>
- CreativeMornings Santa Fe, <https://creativemornings.com/cities/sfe>
- Design Thinking Meetup, <https://www.meetup.com/Design-Thinking-ABQ/>
- Disneyworld, Epcot, Imagination Pavilion!, <https://disneyworld.disney.go.com/>
- Explora Children's Museum, <https://www.explora.us/>
- Electric Playhouse, <https://electricplayhouse.com/>
- FUSE Makerspace, <https://www.fusemakerspace.org/>
- Keshet Ideas and Innovation Community, <https://keshetarts.org/ideas-and-innovation/>
- Meow Wolf, <https://meowwolf.com/>
- Professionals Organizers of New Mexico, <https://nmorganizers.com/>
- QueLab – A Nonprofit Makerspace & Hackerspace, <https://quelab.net/>
- Santa Fe Innovates - Business Accelerator, <https://santafeinnovates.com/>
- Santa Fe Institute, <https://www.santafe.edu/>
- UNM Osher LifeLong Learning Institute, <http://ce.unm.edu/osher/support.html>
- UNM Rainforest Innovations, <https://innovations.unm.edu/>

I recommend connecting with me on LinkedIn, <https://www.linkedin.com/in/stacysacco/>

For More Information (cont.)

Books:

- Applied Imagination: Principles and Procedures of Creative Problem-Solving, Alex F. Osborn, L.H.D., The Creative Education Foundation Press, 1993
- Create the Future: Tactics for Disruptive Thinking, Jeremy Gutsche, 2020
- A Kick in the Seat of the Pants: Using Your Explore, Artist, Judge and Warrior to be More Creative, Roger von Oech, Harper & Row Publishers, Inc., 1986
- Oxford Handbook of Creative, Innovation, and Entrepreneurship, Christina Shalley, 2015
- Six Thinking Hats, Edward De Bono, MICA Management Resources, 1985
- The Rise of the Creative Class, Richard Florida, 2002
- Thinking, Fast and Slow, Daniel Kahneman, Farrar, Straus and Giroux Publishers, 2013

Related Magazines:

- Entrepreneur Magazine, <https://www.entrepreneur.com/magazine>
- Fast Company, <https://www.fastcompany.com/>
- Inc. Magazine, <https://www.inc.com/>
- Wired Magazine, <https://www.wired.com/>

Related Videos:

- TED Talks About Creativity, <https://www.ted.com/topics/creativity>
- TED Talks About Innovation, <https://www.ted.com/topics/innovation>
- Embrace the Shake, www.youtube.com/watch?v=YrZTho_o_is

Speaker Biography

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Lecturer I Emeritus, UNM Anderson School of Management, <https://www.mgt.unm.edu/>
President, Sacco Connections LLC, <https://www.nmnetlinks.com/>

Memberships / Boards:

American Creativity Association, <https://www.actcreatively.org/>
American Marketing Association, <https://www.ama.org>
Up With People International Alumni Association, <https://upwithpeople.org/alumni/about/>
Workforce Connections of Central New Mexico, <https://www.mrcog-nm.gov/354/Workforce>
World Future Society, <https://www.worldfuture.org/>

Social Media Connections:

LinkedIn - 6,162 Followers, <https://www.linkedin.com/in/stacysacco/>
NM Networking Links - 4,510 Contacts, <https://www.nmnetlinks.com/>
Facebook - 670 Friends, <https://www.facebook.com/stacy.sacco.31/>
Instagram – No Interest
Twitter – No Interest

Accolades:

Power Broker (one of the 100 most influential people statewide), New Mexico Business Weekly, 2008-2012
Best Local to Lunch With (1 of 5, ranked #1 in 2014), Albuquerque the Magazine; 2013-2019
Most Connected Businessperson in Albuquerque (1 of 7), Albuquerque Business First, 2015
Best Person to Pitch Albuquerque in an Elevator Speech (1 of 18), Albuquerque Business Pulse Survey, 2015