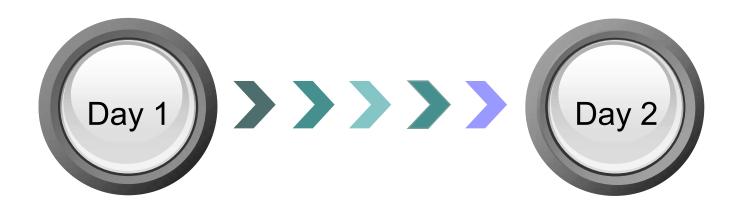


Nos Aruba 2025

September 2008



Agenda



- The NOS Aruba 2025 programme
- Scenario planning Refresh
- Discussing the winds of change
- Build scenarios
- Scenario implications
- Presentations

- Identifying opportunities
- Setting goals for Aruba
- Identifying the strategic resources required
- Presentations
- Next steps

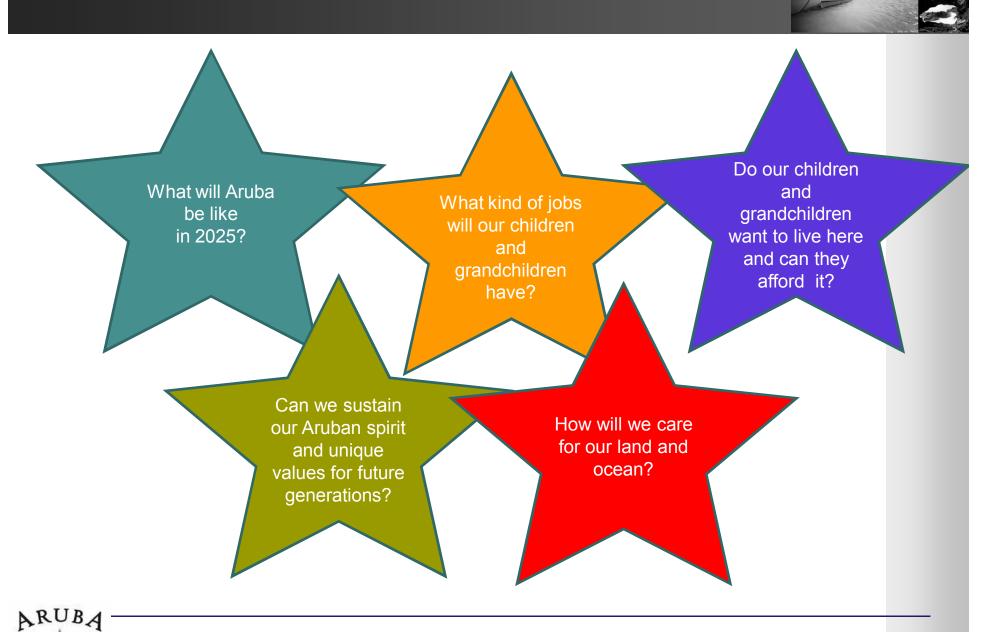


Overview of the day



- Welcome
- Introductions
- ❖ How this workshop fits within "Nos Aruba 2025"
- Decision making under uncertainty refresh
- Building scenarios

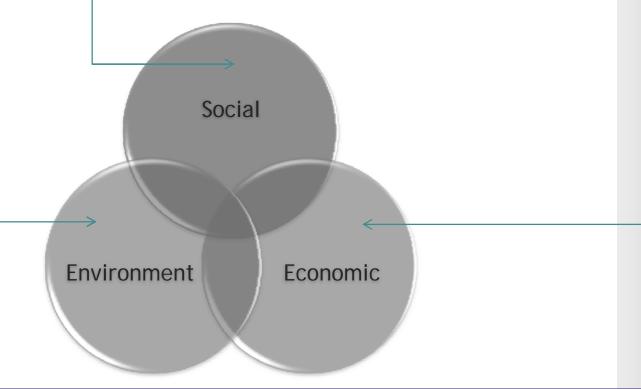
Aruba 2025.....



Meet the needs of the present without compromising the ability of future generations to meet their own needs



❖ A Sustainable Aruba that is developing for the Benefit of all people and stakeholders of Aruba and that has a Future for our children and our grandchildren which will make them Proud to be Arubans.



Guiding Principles of sustainability

(SDS Short Story newsletter April 2008)



- We <u>integrate</u> economic, social, community and environmental priorities.
- ❖ We respect and live within the <u>natural resources</u> and limits of our island.
- ❖ We must achieve a <u>diversified</u> and dynamic economy (beyond tourism).
- **❖** We honour the host <u>culture and values</u>.
- ❖ We make decisions based on meeting the present needs without compromising the needs of future generations.
- Everyone individuals, families, communities, businesses and government — has <u>accountability</u> for achieving a sustainable Aruba.

"We share an awesome responsibility, you and I, a responsibility that transcends this time and this place."

Opportunities are.....



An opportunity creates a diversified and competitive economy which expands the necessary strategic resources to meaningfully live, work and play in Aruba in a sustainable way

Meets the sustainability guidelines

- Integrate economic, social, community and environmental priorities.
- Respect and live within the <u>natural resources</u> and limits of our island.
- Honours the host <u>culture</u> and <u>values</u>.
- Everyone individuals, families, communities, businesses and government — has a <u>responsibility</u> for achieving a sustainable Aruba.



Controlling our destiny......

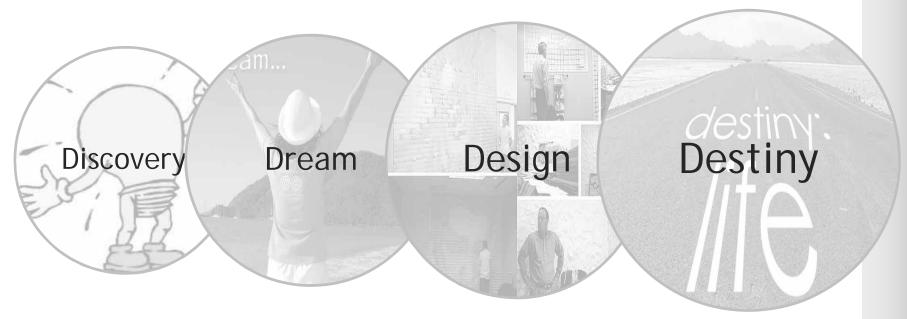


"Direction comes only from an awareness of future opportunities and future needs and a willingness to step forward and address that future - as difficult and as overwhelming as that may sometimes be."

Nos Aruba 2025

The approach has 4 phases





Discovery of the Positive Core

Dream of the desired future

Design of the ways this can be brought about

Destiny - Building the plan to achieve this future



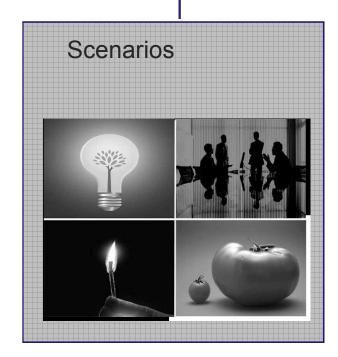
The SOAR Framework

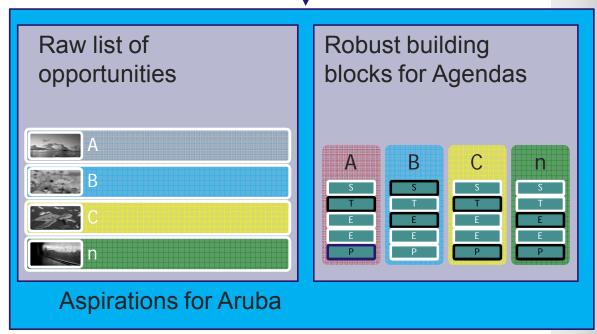


Strategic Inquiry	S trengths	O pportunities
	What are our greatest assets?	What are the best possible opportunities?
Appreciative Intent	A spirations	Resources

Nos Aruba 2025 activities next week





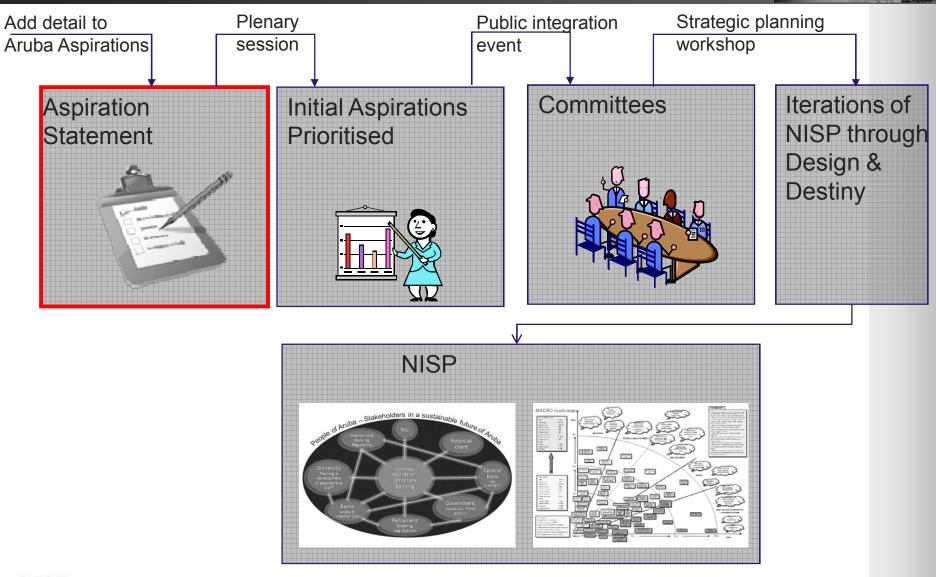


Volunteer to elaborate Aspirations

Post - workshop

From scenarios to options Process overview (continued)





Strategic Resources





Tangible Resources

- Cash
- <u>Fixed Assets</u> such as plant, buildings etc



Intangible Resources

- <u>Relationships</u> can be individual or corporate
- Human Capital knowledge and skills that are owned and controlled by individuals
- Corporate Capital knowledge and skills that are shared and are controlled without reference to a single person's expertise



Natural Advantages

• Environmental factors such as location; wind; tide; water; mineral, oil or gas deposits; etc that can be exploited to benefit the sustainable development of the economy - can be permanent or temporary as a result of <u>Forces</u> acting on strategic environment



A Route Map to the Future.....



"We are building a roadmap that indicates how we may reach our vision for 2025; it will allow for uncertainty along the way as to exactly which roads we will follow in response to a changing world"





Overview day 1



Scenario planning refresh

Discussing the winds of change

Scenario matrix and blueprint

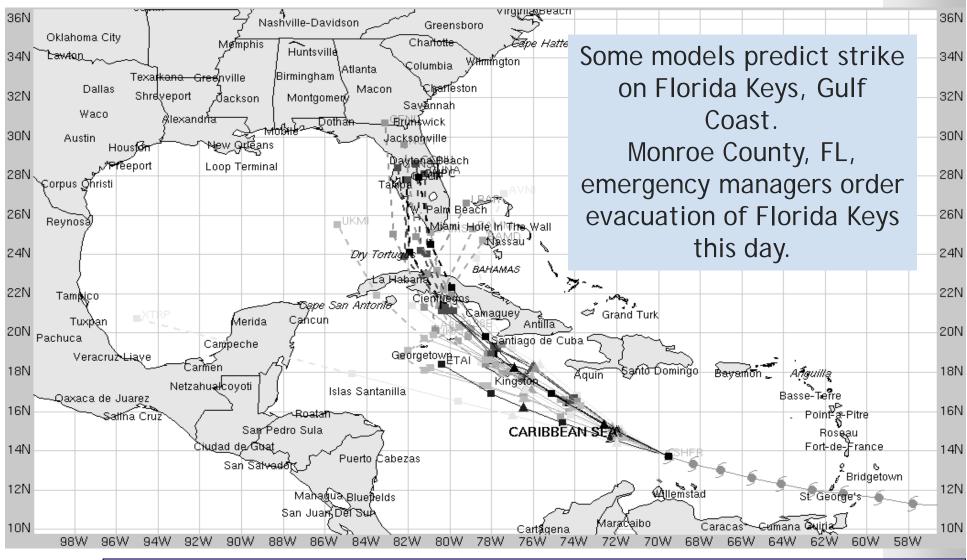
Scenario detail

Presentations

Decision making under uncertainty refresh

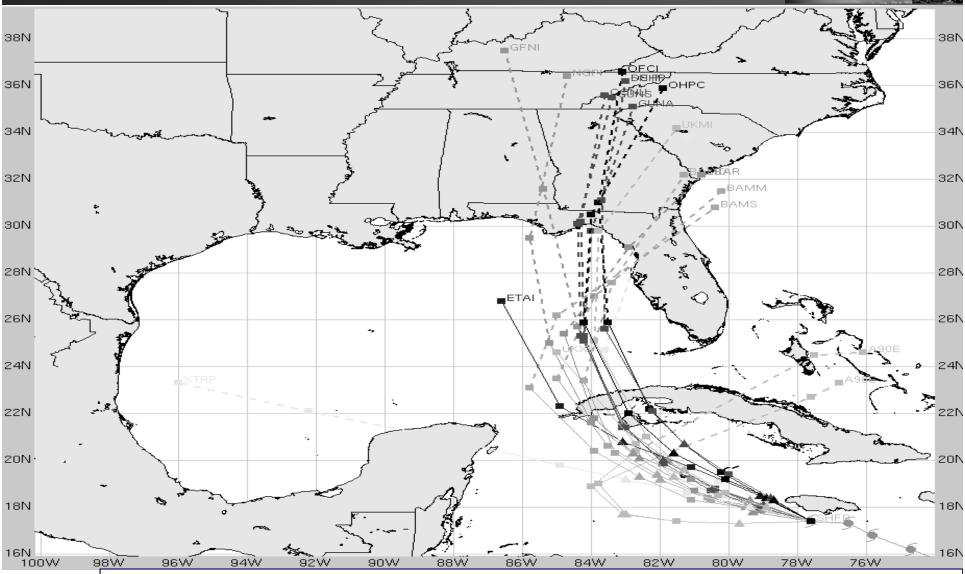
Hurricane Ivan model spread - 7 days before landfall (9 Sep 04)





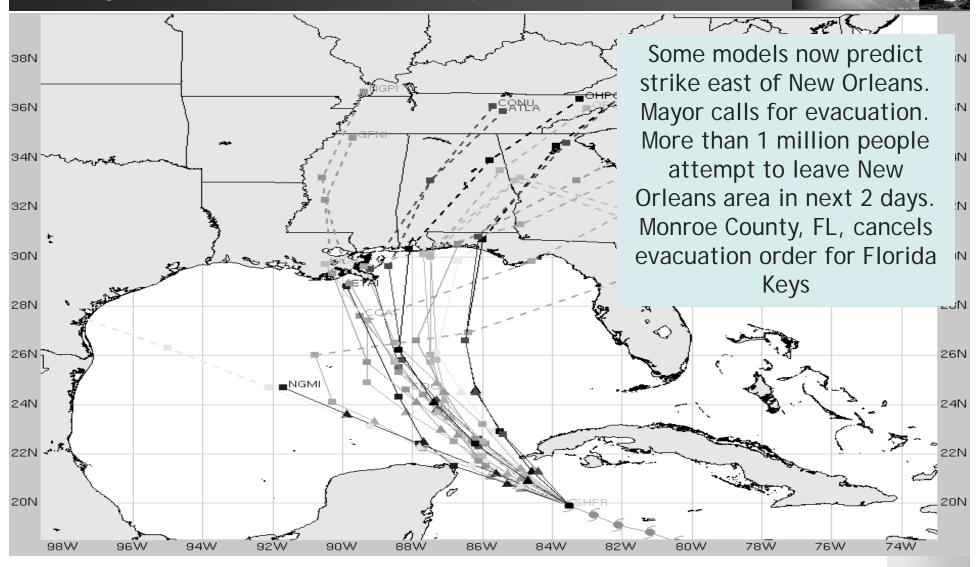


Hurricane Ivan model spread - 5 days before landfall (11 Sep 04)



ARUBA

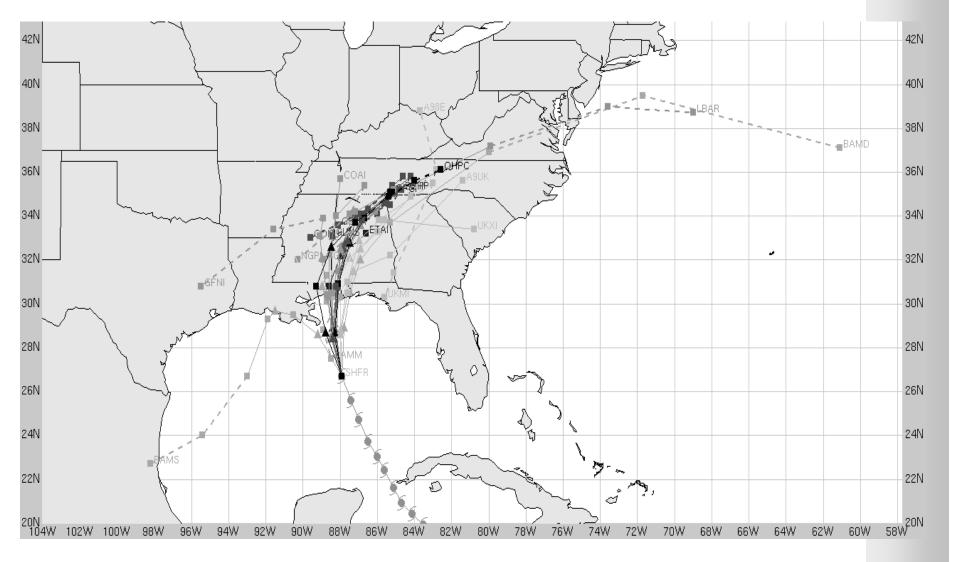
Hurricane Ivan model spread - 3 days before landfall (13 Sep 04)





Hurricane Ivan model spread - 1 day before landfall (15 Sep 04)







Hurricane Ivan - actual path



Were officials wise to order evacuations?

More uncertainty in the World

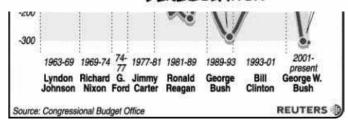












* Source: Europe 500 – WSJ.com & FT.com

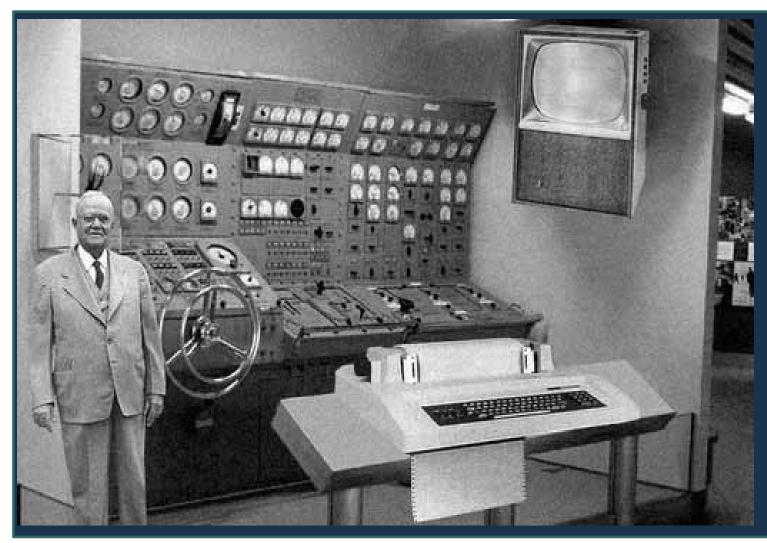




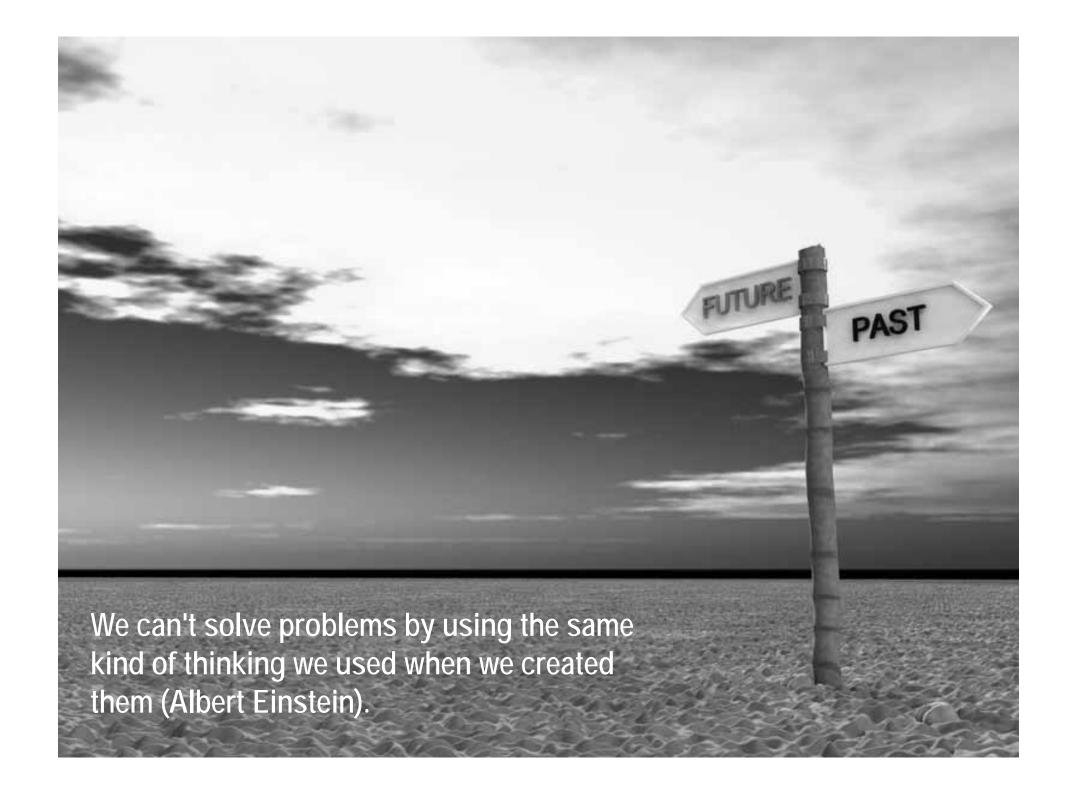


We can't predict the future....





Scientists from **RAND** Corp. have created this model in 1954 to illustrate how small a home computer could look like in the year 2004!





Just Because You've Always Done It That Way Doesn't Mean It's Not Incredibly Risky.







Great fortunes are made when the canon balls are falling in the harbor, not when the violins play in the ballroom.

--Nathan Rothschild, 19th Century Banker

The only 'risk' which leads to a profit is unique uncertainty.

--Frank Knight, Univ. of Chicago Economist, 1921

Chance favors only the prepared mind.

--Louis Pasteur, French Scientist



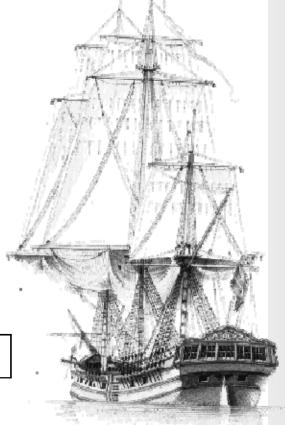
"Sailing into the unknown"



James Cook was told, "You are to proceed to the Southward in order to make discovery of the terra australis incognita." (the unknown continent)

- Trip initiated by the Royal Society
- ❖ Royal Admiralty wanted Cook to sail from the South pole to the North Pole and all the Pacific in search of a unknown southern continent
- Cook had to prepare for a trip to a land no one has documented, experienced, or even seen

How do you prepare for the unknown?







How many times does the team in the white jerseys pass the ball to each other?

Why Do Scenario Planning?



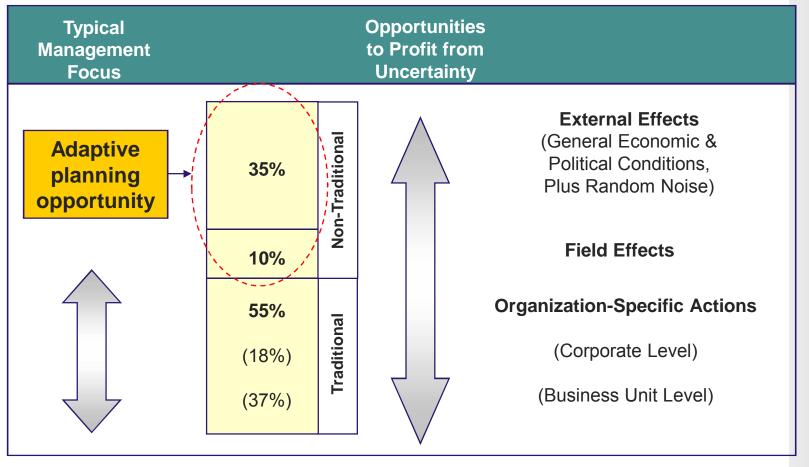
Winners Often Become Losers

Need for Fresh Perspectives

To Benefit from Uncertainty

Half the Business Is Left to Fate





The percentages refer to how much of the variance in return on assets is due, on average, to various influences. The data reflect over 100 US manufacturing firms consisting of at least two strategic business units covering 160 industries.

Source: Jaime Roquebert et al, *Strategic Management Journal*, Vol. 17 (8), 1996.



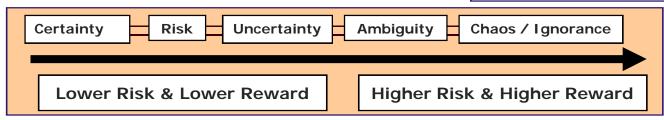
We Must Change our Tools and Focus





Newer Tools

Influence diagrams
Scenario planning
Real options analysis
Hedging / Derivatives
Total risk management
Dynamic monitoring
Systems dynamic modeling
Learning models / Simulation



Traditional Tools

Extrapolative forecasting
Net Present Value analysis
Decision trees
Bayesian updating
Expected utility theory
Monte Carlo simulation
Portfolio optimization
Stochastic modeling
Insurance Safety programs

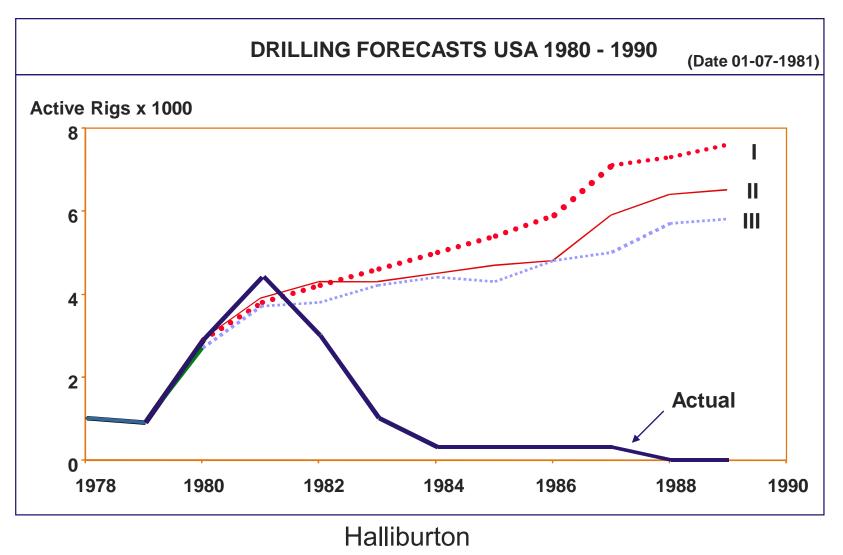






Scenarios versus Forecasts



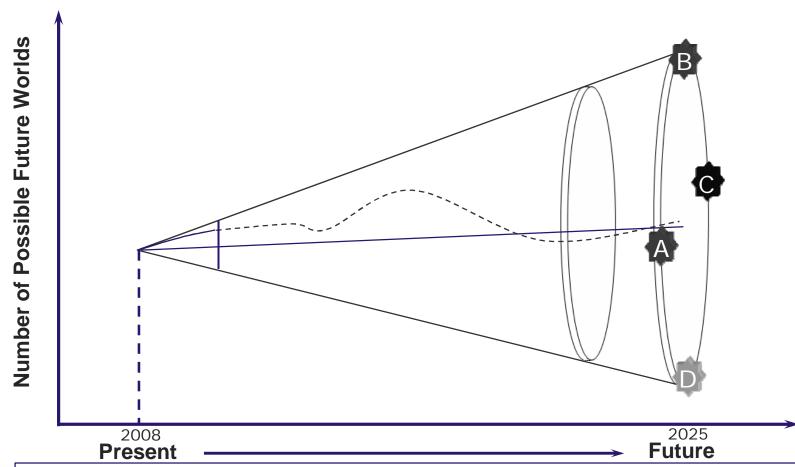




Scenarios Bound The Future



Instead of forecasting, when one follows a trend and adds estimated deviations, scenario planning presents a cone of possible "futures"

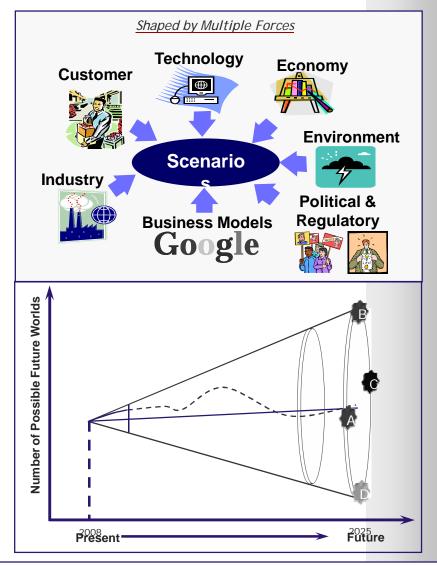




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What Are Scenarios

- Scenarios bound the realm of future possibilities
- Scenarios are shaped by multiple types of forces
 - Social
 - Technology
 - Economy
 - Ecological
 - Political
- Scenarios draw attention to possibilities we may otherwise not have taken seriously
- Scenarios create "memories of the future", allowing us to recognize "weak signals" as the future unfolds





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Scenario Construction - The Mechanics



Identify "the winds of change" for Aruba



Build the scenario 2x2 and blueprint

<u>Timeframe:</u> 17 years into the future (2025)

Scope: Aruba within a Global Context



Develop the scenario themes



Create newspaper headlines and the major scenario highlights



Identify the behavior of key stakeholders

Scenario Scope



- We want to create scenarios for
 - The opportunities for a sustainable Aruba in 2025
- The scope of the scenarios is defined by the "building blocks" of a sustainable society. What is needed in terms of
 - Society or social infrastructure
 - Technology and innovation
 - Economy and economic infrastructure
 - Environment and environmental management
 - Political and legislative support
- What should be the time frame for analysis?
 - Look at scenarios 17 years out
 - Year 2025
- What should be the geographical scope?
 - Aruba in the context of the regional and global economies



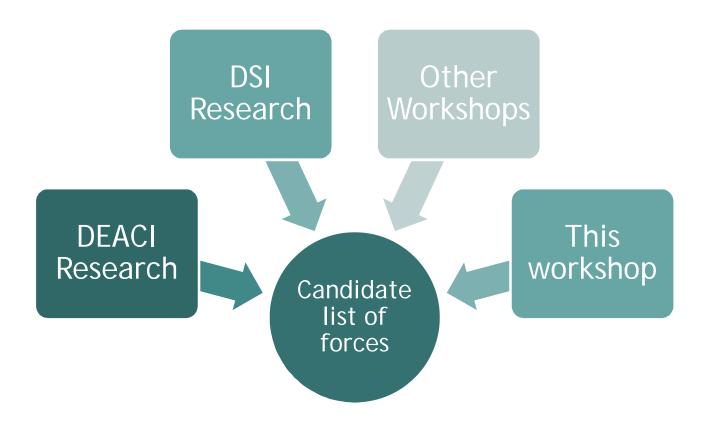


- Cover a wide range of possibilities
- Represent diverse views
- Good balance of trends and key uncertainties
- Consistent
- Indicate pathways
- Connect with concerns (either confirming or challenging them)
- Stimulate search for resource opportunities



Winds of Change inputs





Winds of Change refer to a wide range of forces that can put things *off their current* course



	Social	Technological	Economic	Environmental	Political
Global	PerceptionsValuesResponsibilities	• Innovation	Development	Climate changePerception and response	Dominance
Regional	PerceptionsValuesResponsibilities	• Investments	Development and dominanceCommodity prices	Efficiency and sharing	Relationships
Local	 Community well being Access to jobs, facilities and services Culture and values 	ApplicationsR&D (leadership)Availability	 Economic Indicators Economic Growth Business diversity Affordability Import/Export balance 	 Natural resource use Alternative energy Environmental management 	LeadershipPoliciesTax systems



Social "winds of change"

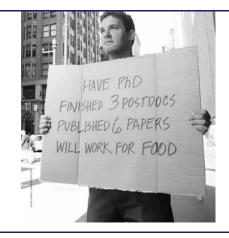


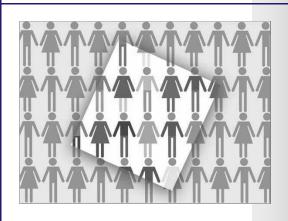
Meeting aspirations of	of
young Arubans	



Social Inclusion







Sense of Personal Security

Cultural Heritage/Values

Health Care/Healthy living



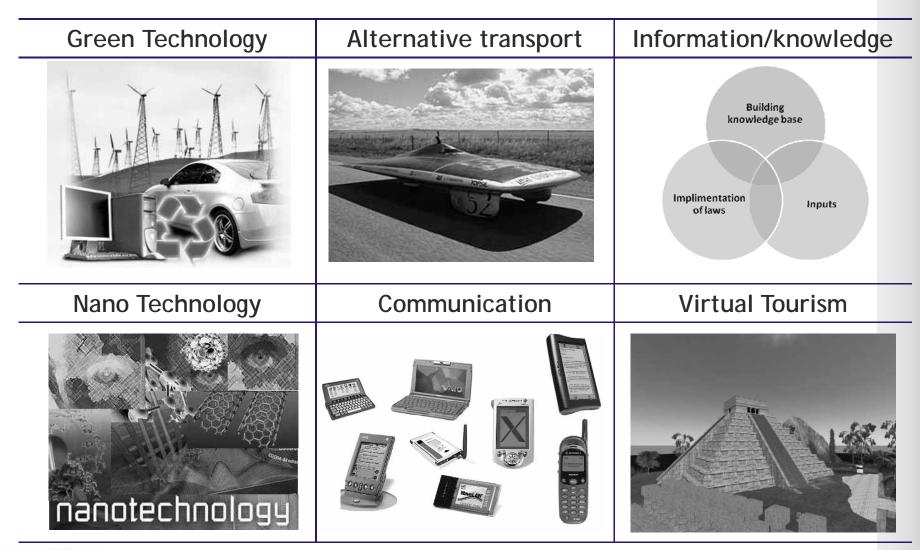






Technological "winds of change"







Economic "winds of change"



Movement of goods	Energy security	Commodity prices
Neighbouring Economies	Globalisation	Skilled workers
		Skilled Worker Gold! Gold!

Ecological "winds of change"



Building/Land use	Climate Change	Air Pollution
Land Use Land U		
Rising Sea levels	Wild-life	Protection of bio-diversity
Google-		



Political "winds of change"



Budget Cutbacks	International Subsidies	Future Leaders
	NT MAS YOU WASN'T 1799	
Dutch Government	EU	Future tax systems
	* * * *	TAX

Scenario Construction - The Mechanics



Identify dominant forces and determine trends and uncertainties



Build the scenario matrix and blueprint

<u>Timeframe:</u> 17 years into the future (2025)

Scope: Aruba within a Global Context



Develop the scenario themes



Create newspaper headlines and the major scenario highlights

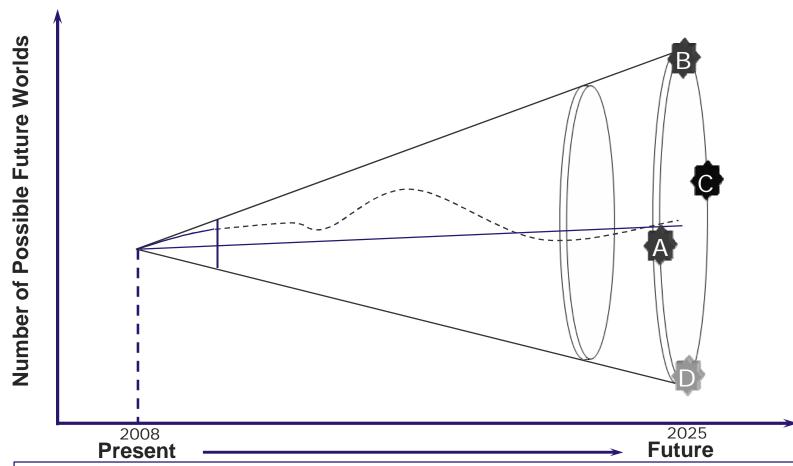


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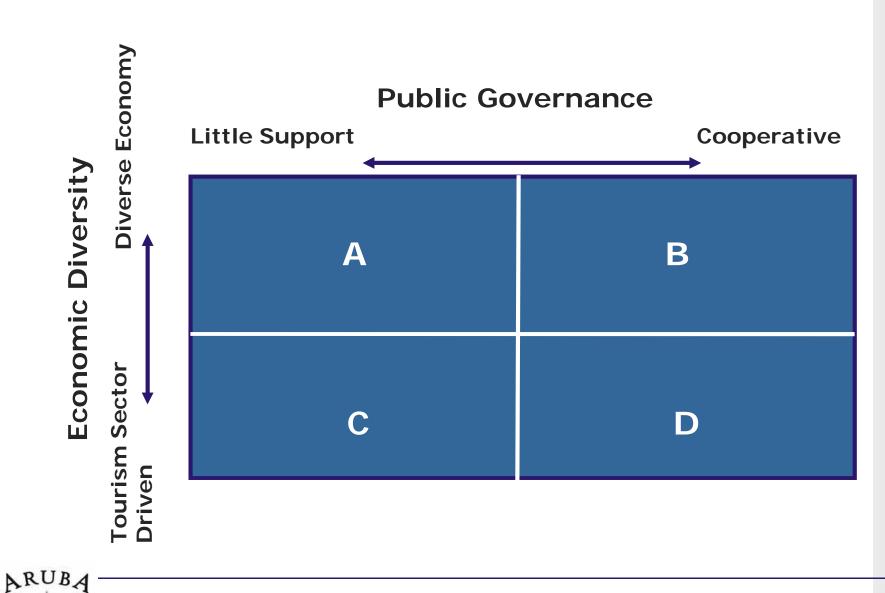




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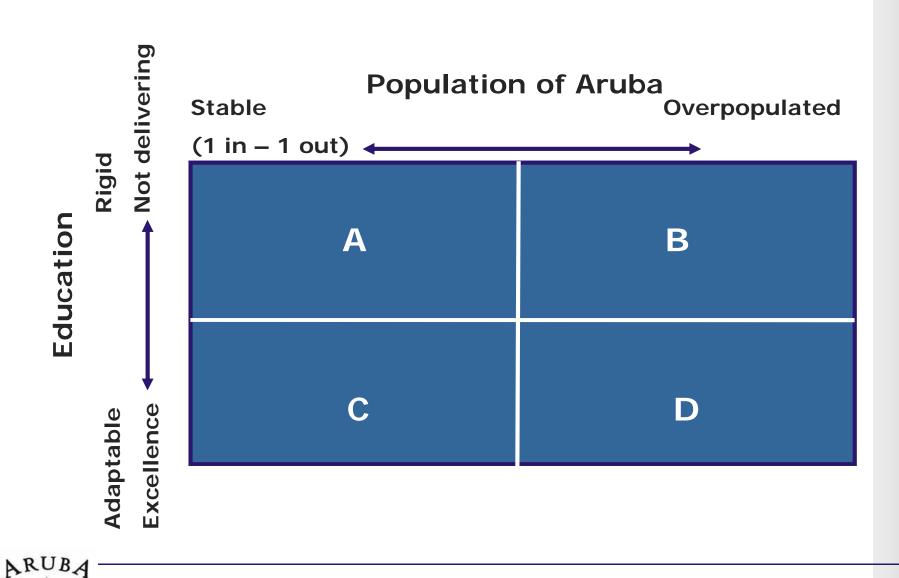
Matrix Group 1

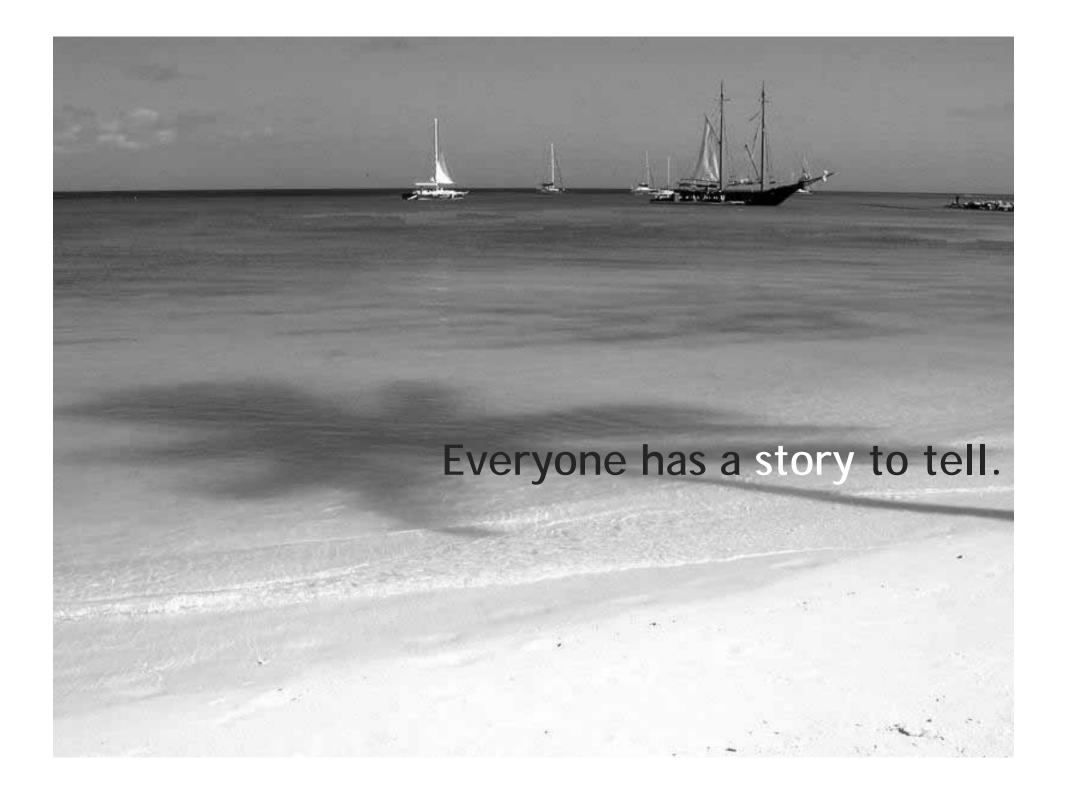




Matrix Group 2







What is the story?





Template: Scenario Snapshot



In 2025 we live in an Aruba that looks like...

Define the end state

The key events that happened between now and 2025 are:

What are some of the headlines that may appear between now and 2025 (how does your scenario unfold)

Aruba is doing well in 2025 because:

Define how Aruba changed (STEEP)

Uncertainties and extremes



Uncertainty	Extreme A	Extreme B
How will governance develop?	No Support	Collective
How economically diverse will Aruba be?	Tourism Sector Driven	Diverse Economy
To what extent can leadership develop on Aruba to drive change?	\o change	Enlightened leadership
How will energy prices change?	Low	High
To what extent Aruba will be able to develop its education system? (educational excellence)	Mediocre Education	Excellent Education
How is education going to effect the quality of actors in Aruba's economy?	No effect	Significant effect
How will global tourism change and impact Aruba?	Tourism Demand ≠ Aruban Product	Tourism demand perfectly fits Aruban Product
What will the long term impact on tourism be?	No ecological effect	Positive ecological effect
What will the impact of over-population on the island be?	Negative social consequences	Positive Social Consequences
The extent to which Aruba will be politically conscious on the environment?	No policy steps regarding environment	Policy is proactive
To what extent will Arubans and its visitors feel safe and secure?	Unsafe	Very Safe
What will be the dominant source of energy on Aruba?	Non-renewable Energy	Renewable Energy
To what extent will Aruba able to preserve its nature?	No wildlife	Wildlife everywhere
To what extent are basic provided for (healthcare, social housing, etc)	Basic needs not provided for	Basic needs are taken care of



Uncertainties and extremes

Uncertainty	Extreme A	Extreme B
What is the state of the Education system in Aruba	Adaptable to the future Educational excellence	Rigid – not flexible Doesn't meet Aruba's needs
Population of Aruba	Stable (1 in – 1 out)	Overpopulated
Good governance	Transparency, Accountability, Strong leadership	Not accountable, Poor leaderships
Re-use/efficiency	High re-use of land, materials Good recycling programs	Lots of new buildings and little recycling
Energy source/security in Aruba	Independent using lots of renewables	Highly dependent on oil from other countries
Social inclusion	Highly integrated society and harmony	Segregated society and racism
Conservation of natural resources	Green thinking Preserved natural assets	No green conscious Rapid use of natural assets
Relationship with Holland	Strong ties	Isolated
Sense of safety and security	Feel safe	Feel unsafe at home or in public
National pride	Proud to be Aruban	Don't care
Impact of Global Tourism	Positive	Negative
Zoning	Good zoning	Poor zoning

Blueprint Scenario



Uncertainty	State	Explanation
What is the state of the Education system in Aruba		
Population of Aruba		
Good governance		
Re-use/efficiency		
Energy source/security in Aruba		
Social inclusion		
Conservation of natural resources		
Relationship with Holland		
Sense of safety and security		
National pride		
Impact of Global Tourism		
Zoning		
SIID .	-	



Blueprint Scenario



Uncertainty	State	Explanation
How will governance develop?		
How economically diverse will Aruba be?		
To what extent can leadership develop on Aruba to drive change?		
How will energy prices change?		
To what extent Aruba will be able to develop its education system? (educational excellence)		
How is education going to effect the quality of actors in Aruba's economy?		
How will global tourism change and impact Aruba?		
What will the long term impact on tourism be?		
What will the impact of over-population on the island be?		
The extent to which Aruba will be political conscious on the environment?		
To what extent will Arubans and its visitors feel safe and secure?		
What will be the dominant source of energy on Aruba?		
To what extent will Aruba able to preserve its nature?		
To what extent are basic provided for (healthcare, social housing, etc)		



Scenario Construction - The Mechanics



Identify dominant forces and determine trends and uncertainties



Build the scenario matrix and blueprint

<u>Timeframe:</u> 17 years into the future (2025)

Scope: Aruba within a Global Context



Develop the scenario themes



Create newspaper headlines and the major scenario highlights



Identify the behavior of key stakeholders

Scenario themes



- For this module, we will remain scenario groups.
 - Define the situation in your scenario regarding the following themes:
 - 1. Economy and sector theme:
 - 1. Economic health
 - 2. Leading/lagging industries (diversification)
 - 3. Technology development
 - 4. Energy supply
 - 5. Transport
 - 6. Agriculture and food
 - 7. Natural resources

2. Social theme:

- 1. Local vs. regional development
- 2. Education
- 3. Healthcare
- 4. Welfare
- 5. Social values
- 6. Employment and income levels

3. Environmental theme:

- 1. Climate change
- 2. Building and land use
- 3. Wild life
- 4. Waste management
- 5. Environmental management

4. Political theme:

- 1. Relationship with neighbours
- 2. Role of policy
- 3. Governance structure
- 4. Financing tools (taxes, subsidies etc.)



Give your Scenario a title



Scenario Title	
Sub Title (if applicable)	
Explanation of Title	

ARUBA

Leading industries in your scenario



From an economic point of view, what are the leading industries in your scenario and why?

Day 2 Opportunities for Aruba



"Imagination is more powerful than knowledge."

Albert Einstein

Overview day 2



Identify the core opportunities

Selecting top opportunities per scenario

Developing the opportunity wheel

Presentations

Next Steps

The SOAR Framework



iry	S trengths	Opportunities
Strategic Inquiry	What are our greatest assets?	What are the best possible opportunities?
+	A spirations	Resources
Appreciative Intent	* Aspirations	■ * esources

Opportunities are.....



- An opportunity creates a diversified and/or specialized and competitive economy which expands the necessary cash flow to meaningfully live, work and play in Aruba in a sustainable way
- Opportunities need to meet the sustainability principles
 - Integrate economic, social, community and environmental priorities.
 - Respect and live within the <u>natural resources</u> and limits of our island.
 - Honours the host <u>culture</u> and <u>values</u>.
 - Everyone has a <u>responsibility</u> for achieving a sustainable Aruba.





Brainstorm opportunities





Selecting 2 opportunities to take forward



- **❖** We select an opportunity based on the following criteria:
 - 1. The extent to which the opportunity builds on current strengths
 - 2. The extent to which the opportunity takes the guiding principles into account
 - 3. The attractiveness of the opportunity in your scenario (i.e. cash flow, risk mitigation)
 - 4. Most importantly how passionate are you about it!
- ❖ We <u>integrate</u> economic, social, community and environmental priorities.
- We respect and live within the <u>natural resources</u> and limits of our island.
- We must achieve a <u>diversified</u> and dynamic economy (beyond tourism).
- We honour the host <u>culture and values</u>.
- We make decisions based on meeting the present needs without compromising the needs of future generations.
- Everyone individuals, families, communities, businesses and government has accountability for achieving a sustainable Aruba.

Read the example of Hawaii



The year is 2050 and Hawai'i is a sustainable community.

Living responsibly and within our own means is top-of-mind for all individuals and organizations. We learn about the virtues and values of a sustainable Hawai'i. As a result, our goals of economic prosperity, social and community well-being, and environmental stewardship are in balance and achieved.

Our Kanaka Maoli culture and island values are perpetuated. We have a vibrant, clean, locally based and diversified economy that supports a living wage for island residents. Workforce development affords economic and career opportunities for our children. Our land, water and natural resources are used responsibly, and are replenished and preserved for future generations.

We respect and live within the natural resources and limits of our islands. In 2050, the energy we use is clean, renewable and produced mostly in Hawai'i. Much of the food we consume is produced locally. We minimize waste by recycling. We are a strong and healthy community with access to affordable housing, transportation and health care. Our public education system prepares our people for productive, meaningful and fulfilling lives.

We no longer measure economic vitality solely by statistics such as the number of building permits issued or by tax revenue, but by much more balanced sustainability indicators that guide the actions of the public and private sectors. Every year, these indicators tell us how we are doing, and guide future action.

In 2050, Hawai'i is where our hopes and aspirations as individuals, families and as a community are realized now and in the future.





Detailing the opportunity

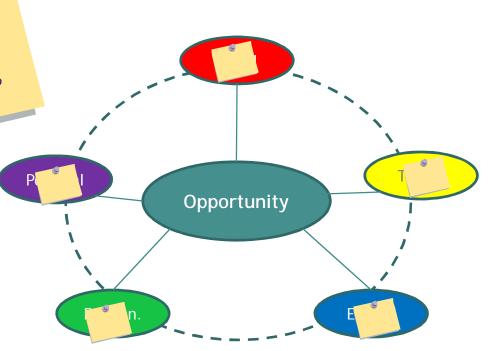




Introduction to the opportunity wheel

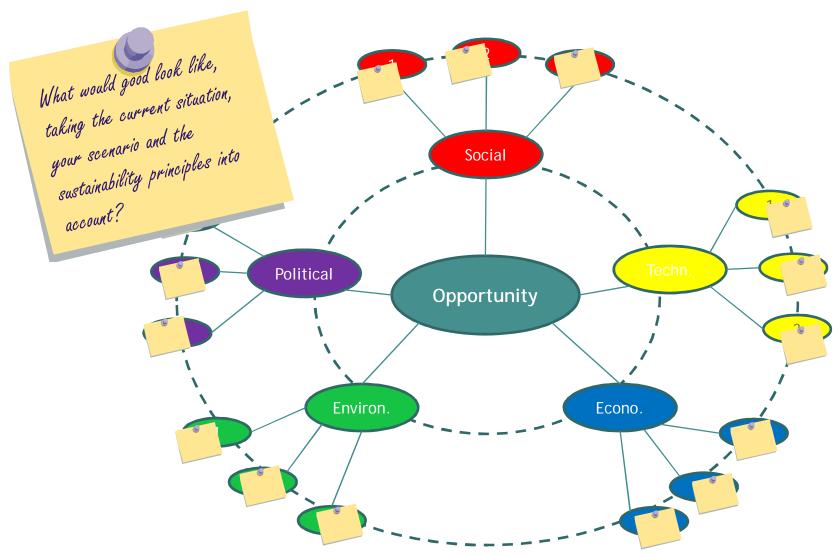


What are the key prewhat are the key preconditions for this
opportunity from a
opportunity from a
STEEP point of view?



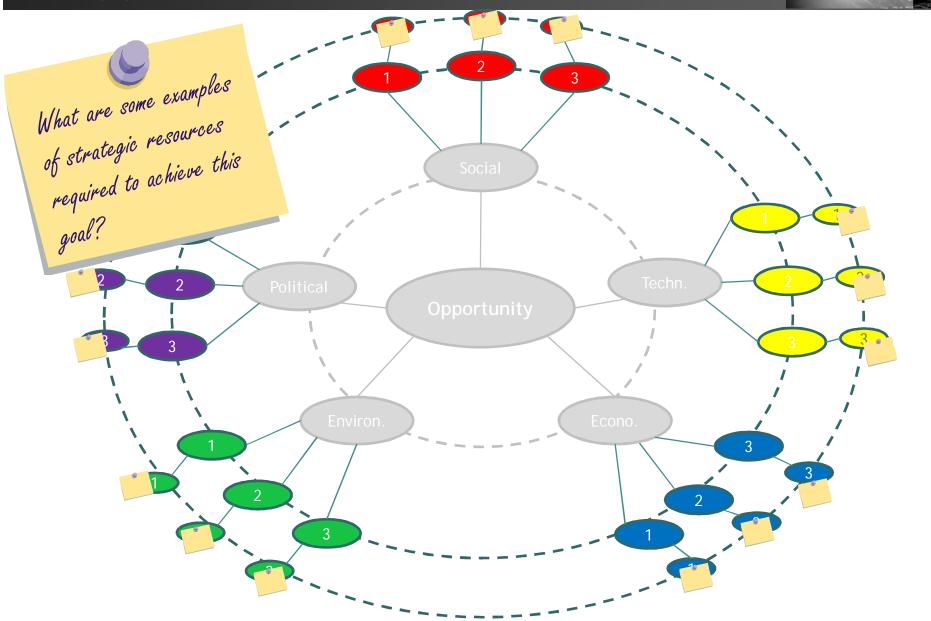
Introduction to the opportunity wheel

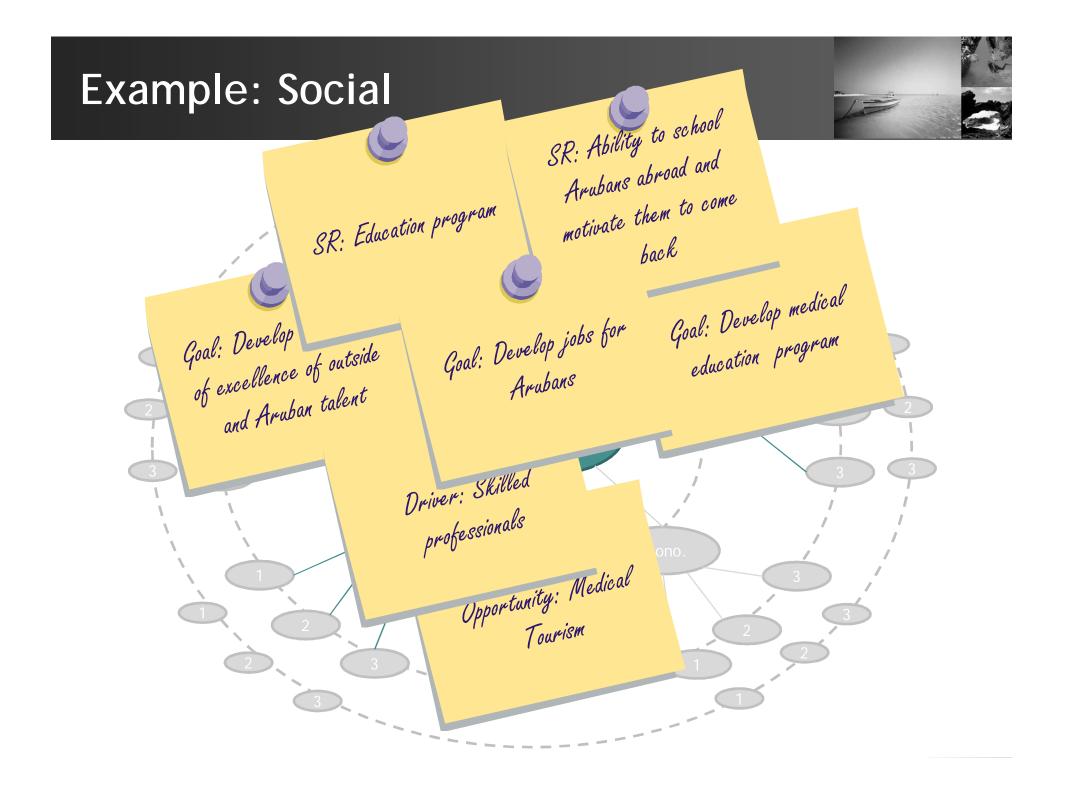




Introduction to the opportunity wheel







Example: Technology



Guiding Principles of sustainability

(SDS Short Story newsletter April 2008)



- We <u>integrate</u> economic, social, community and environmental priorities.
- ❖ We respect and live within the <u>natural resources</u> and limits of our island.
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"We share an awesome responsibility, you and I, a responsibility that transcends this time and this place."

Strategic Resources





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- Cash
- <u>Fixed Assets</u> such as plant, buildings etc



Intangible Resources

- <u>Relationships</u> can be individual or corporate
- Human Capital knowledge and skills that are owned and controlled by individuals
- Corporate Capital knowledge and skills that are shared and are controlled without reference to a single person's expertise



Natural Advantages

• Environmental factors such as location; wind; tide; water; mineral, oil or gas deposits; etc that can be exploited to benefit the sustainable development of the economy - can be permanent or temporary as a result of <u>Forces</u> acting on strategic environment



The strengths framework questions



Raise

What strengths does Aruba have today and should be **raised well above** the today's standard in your scenario?

Create

What strengths should be **created** that Aruba has never offered in your scenario?

Reduce

What strengths does Aruba have today and should be **reduced well below** current standard in your scenario?

Abandon

What strengths does Aruba have to today and should be **eliminated** in your scenario?

Design



Social architecture





The power of the social architecture



Once the strategic focus or dream is articulated (usually consisting of three things in our model-- a vision of a better *world*, a powerful purpose, and a compelling statement of strategic intent) attention turns to the creation of the ideal organization, the social architecture or actual design of the system in relation to the world it is part. What we have found is that the sequencing is crucial, moving first through in-depth work on Dream before Design, followed with back and forth iterations.

In Zimbabwe we recently worked with a partner organization of Save the Children. It was fascinating to observe how easy it was to re-design the organization in terms of structures and systems once broad agreement was reached on a powerful Dream. The articulation of the image of the future was simple: "Every person in Zimbabwe shall have access to clean water within five years". The critical design shift, demanded by the large dream, was to a new form of organization based on a network of alliances or partnerships, not bureaucracy's self-sufficient hierarchy.

When inspired by a great dream we have yet to find an organization that did not feel compelled to design something very new and very necessary

Source: "A Positive Revolution in Change: Appreciative Inquiry" by David L. Cooperrider and Diana Whitney, Draft dated August 2001

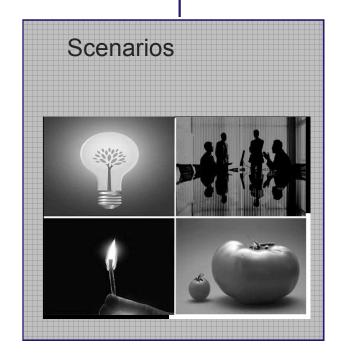


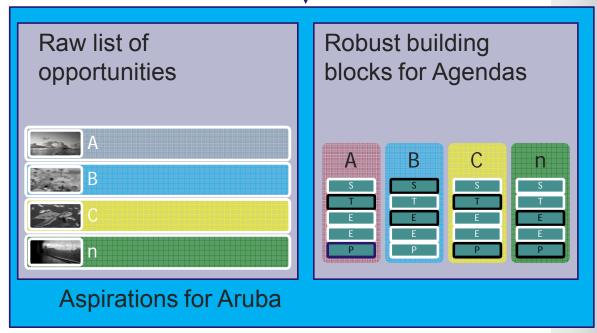
Destiny



Nos Aruba 2025 activities next week







Volunteer to elaborate Aspirations

Post - workshop

From scenarios to options Process overview (continued)



