

TRANSFORMING BUSINESS PARADIGMS

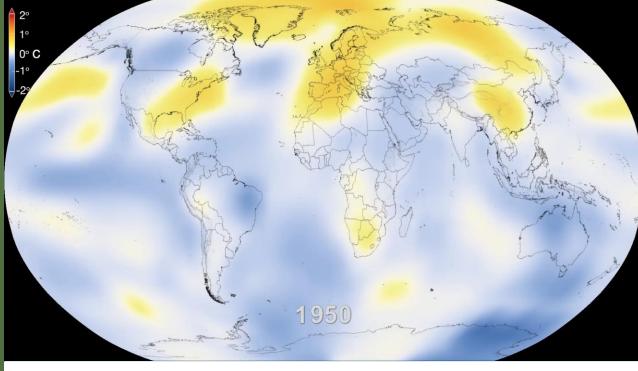


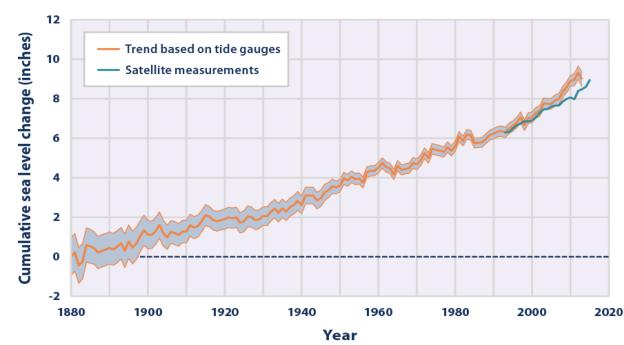


## What's happening?

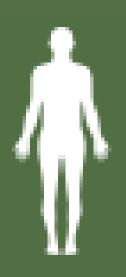
Surface Temperature shoot-up

Sea level will rise 1-4 feet by 2100





#### **HUMAN BODY ANALOGY**



"Take the human body. If your temperature rises 2°C, you have a significant fever. If it rises 4°C or 6°C you can die. It's not a linear change. You're pushing a complex system outside the range it's adapted to. And all our assessments indicate that once you do that, the system's resilience gets stretched thin."



--GLOBAL WARMING--

## The Impact

#### **FACTS**



Total available utilizable groundwater for Rajasthan is 11159 mcm and the increase of 1% in temperature will put additional stress of 6.43% to 20.16% on existing groundwater resources and will reduce the number of safe districts from 6 to 3. An increase in temperature by 2-3% from normal (i.e. 0.82-1.24oC) will leave only 1 district in the category of 'safe' zone. The remaining 31 districts will be mostly in the category of 'overexploited'.

#### MILK PRODUCTION LOSS



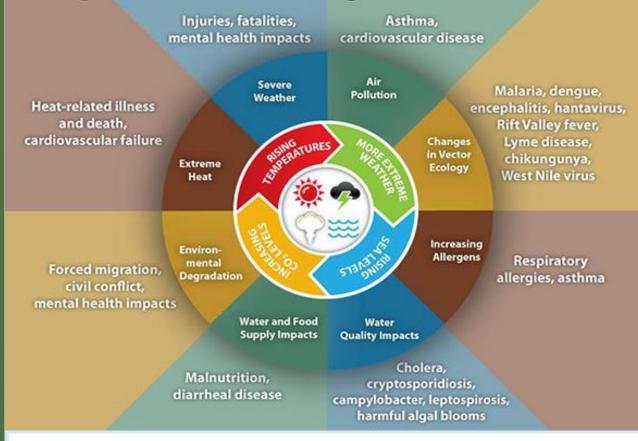
Rajasthan is the second highest producer of milk in the country (amounting to nearly 17 lakh kg per day). But the current annual loss in milk production due to heat stress in Rajasthan is 98.65, 40.55 and 29.74 liters per animal per year in crossbred cows, local cows and buffaloes respectively," states the report.

#### FOOD GRAINS YIELD DECREASE



The harvest prices of food grains, pulses, vegetables and spices have constantly been on the rise. Yield-temperature response curves show that there is a decrease in grain yield of wheat in Rajasthan at the rate of 2.49 quintals per hectare per degree rise in seasonal temperature, 0.92 quintals per hectare decrease in yield of mustard

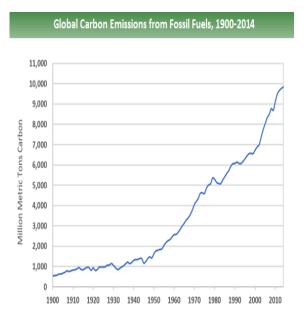
#### **Impact of Climate Change on Human Health**

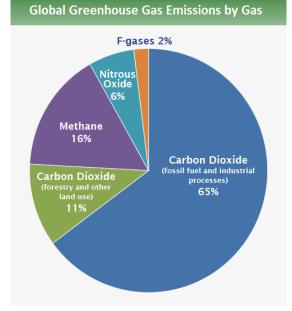




Farmer income losses from climate change could be between 15% and 18% on an average, rising to anywhere between 20%-25% in unirrigated areas of the country

# Why is this happening? INDUSTRIAL GHG Gases Proportionate rise of Revolution **EMISSION** IMPACT

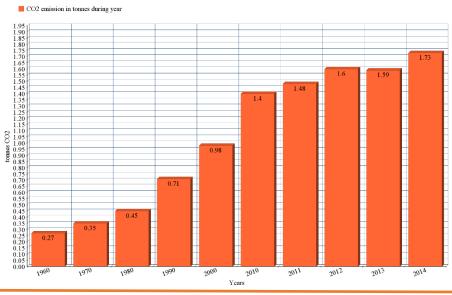


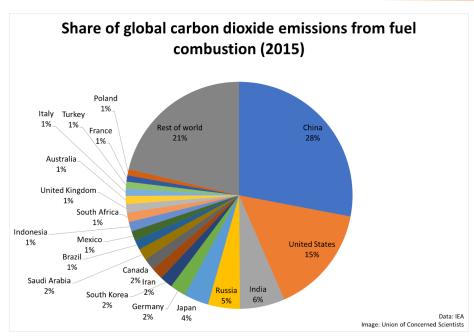


76%

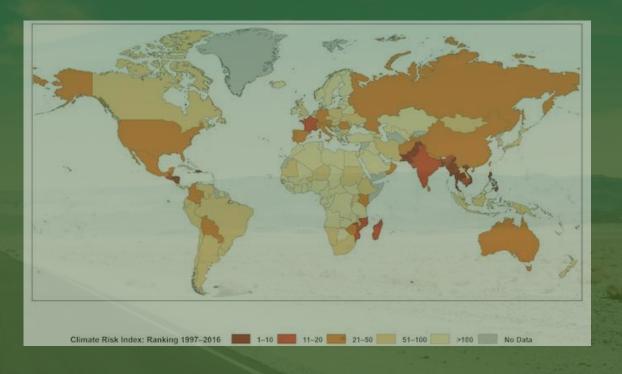
CARBON DIOXIDE'S
CONTRIBUTION IN GHG IS
THE MOST

## India's role in carbon emissions





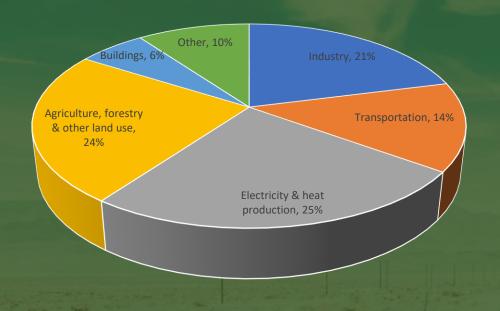
## What is the reason to worry if India is contributing only 6%?



INDIA is in top
20 risky
countries in
climate change
risk

RAJASTHAN is considered to be the FOURTH vulnerable state due to climate change

#### Is it controllable?



"The world's nations have pledged to prevent global average temperatures from rising more than 2° Celsius (or 3.6° Fahrenheit) above pre-industrial levels. If we go too far above that, the worry goes, we dramatically increase the risks of things like rapid sea-level rise or mass extinctions or severe damage to our farms and crops."

#### **CONTROL MEASURES**

Govt & Industries are adopting methods to help reduce carbon emissions.

Rajasthan Govt has formed steering committee and constituted bodies to ensure the emissions are brought to a level below NAPCC/SAPCC standards.

Measures that helps in controlling the emissions

- Urban Forests
- Open Green Spaces

Major part of the responsibility in reducing carbon emissions lies with individuals but there isn't any mechanism to bring in this awareness



## Carbon Credits as a solution

CURRENT STATE

Carbon credits are still with organizational level like government and the industries

OUR SOLUTION

Bringing Carbon credits at a individual level will solve this problem

OUR STUDIES

We saw that the contribution of industries is 21%

**WE THINK** 

There are other factors to reduce carbon footprint and individuals can reduce other factors

WE PLAN

To take this carbon trading on the individual level

## Is it possible at individual level?

INDIA per Capita emission of CO2 per year 1.73 TONNES

It will very complex to give 1 or 1.5 credits per year

Remove complexity

Consider 1 carbon credit as a currency

Introduce

CARBON COIN as small currency

.001 CARBON CREDIT

1000 CARBON COIN

1 - CARBON COIN

1 - CARBON CREDIT

## What to do with the carbon coins?

Average daily emission of carbon/person is 0.00473 tonne



Per person 141.9 Carbon coins per month Per person 128 Carbon coins per month limit in their Carbon wallet 10% reduction to current levels.



Govt. objective is set to reduce the emission intensity of GDP by 2030 to 33 -35% to that reported in 2005

Spend the Carbon coins

Based on CO2 emission quantity for each of the product or service being availed







Air Travel

.



If the person has spent all coins before completion of month, he cannot buy petrol or gas or anything even if they want

They will have only 2 options

- 1. Wait till next month
- Buy extra coins from the person who had remaining coins on that day – Carbon Trading

## What is Carbon trading?



1 carbon credit = 1 ton of CO2 emitted in environment

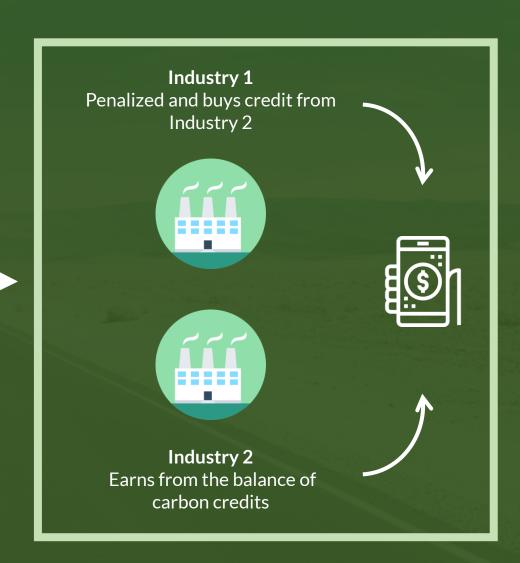


There is a fixed amount of carbon credit industries get and they have to emit CO2 based upon that limit



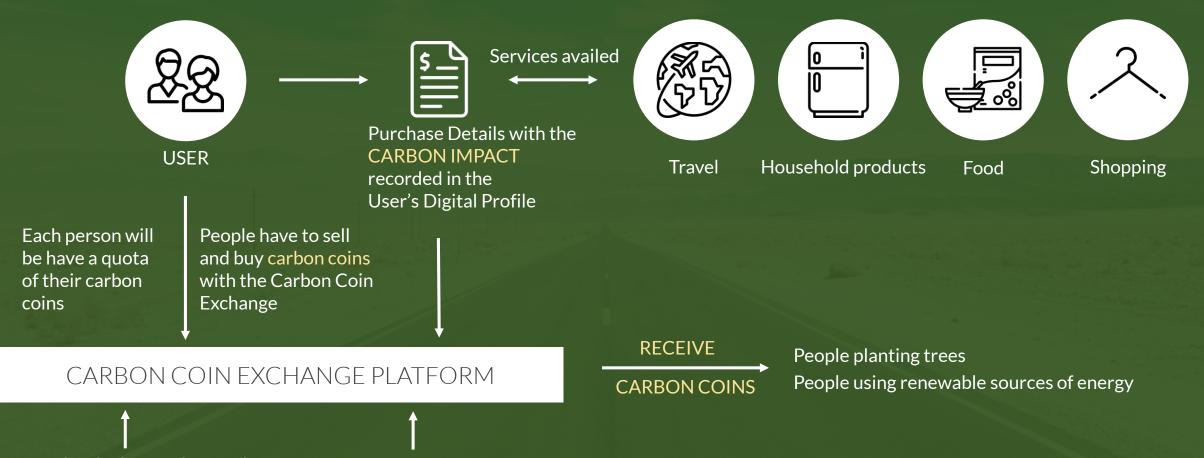
Means the industry which cross the limit to emit CO2 that industry have to penalized themselves with buying carbon credits from the other industries and that other industries can also earn from remaining carbon credits.





#### How will it work?

The knowledge of the carbon emissions that each of these products and services carry, combined with the carbon coin exchange platform will empower consumers to be active participants in the fight against climate change



People who have exhausted their coins will have to pay and buy from the exchange to offset their carbon credit People who have extra coins can sell the coins for fiat currency at the exchange

## Any different method to set Carbon accounting?

RAPIG QUBE

Once allotted Carbon coins exceeds, the coins goes in negative indicating a liability

At end of two month cycle, the average of liability across two months are converted to assets

The Carbon emission can be set within Cap by Avoiding, Sharing, Adoption and Absorption techniques followed by the individual.

The 10% of such asset is discounted and the remaining is applied as a Carbon Cap.

## How this has affect on reducing CO2?



If people is taking their personal car for regular office or any travelling then they have to spend the coins for that emission. This will push people to give lift another 4 persons in the car and take their carbon coins based on the shared emission of total 5 persons.



**ADOPTION** 

Switching to cleaner energy source that shouldn't emit CO2, such as Solar Panels, Wind Mill etc.



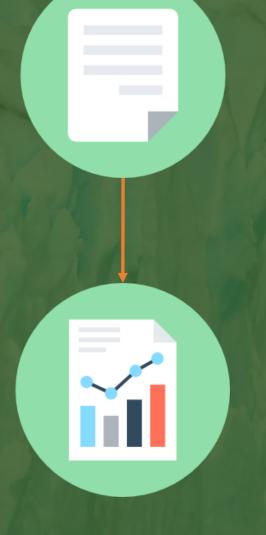
But, in other way if people started avoiding private vehicle for regular use then also it will be beneficial to the environment. And remaining carbon points people can sale to the person who want extra carbon coins.



**ABSORPTION** 

Engaging in methods and practices that absorb Carbon that had been already emitted into the atmosphere such as planting trees.

How people will know where to reduce and what to reduce?



Carbon statement similar to credit card or bank statements to view and analyze the carbon spent

We will analyze the consumer's data and provide personalized advise that will help to understand where to spend less coins and what you can do excepting what you are doing

## SWOT Analysis

#### Strengths

Individual awareness & responsibility

**Reformist Stance** 

Untampered reporting

#### Opportunity

Demand for renewable sources of energy and thereby making them economically viable.

More Carbon Credits at National level available for trade in International market.

#### Weakness

Multiple iterations of releases to understand the emission pattern & build thresholds across different segments of people.

World's first - untested waters

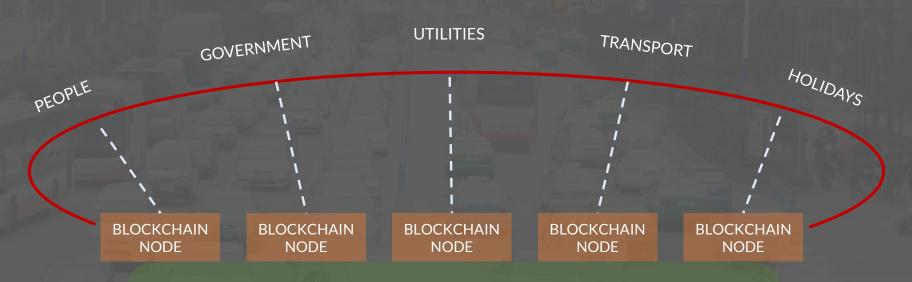
#### **Threats**

Political apprehension

Initial panic and confusion for not understanding the way this would work

## SOLUTION ARCHITECTURE

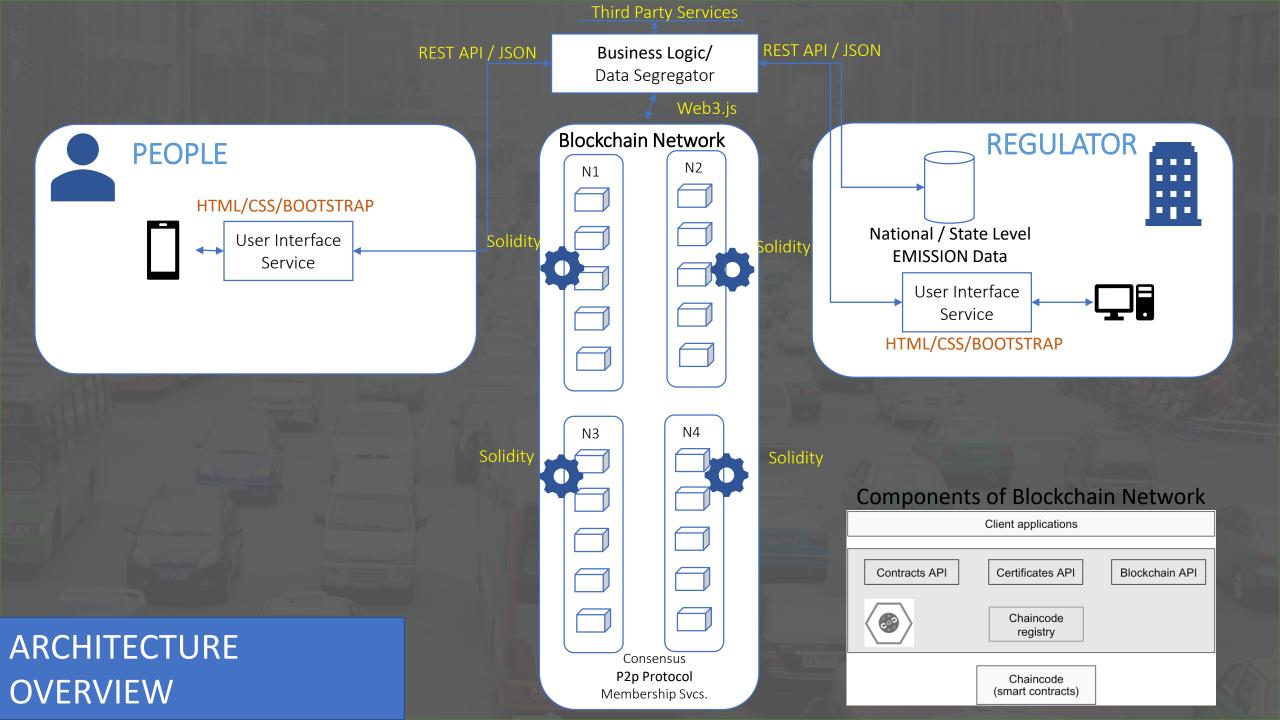




#### **BLOCKCHAIN NETWORK**

CARBON CREDIT SHARING
CARBON EMISSION CALCULATION

CARBON CREDIT PRICING
CARBON EMISSION TRACKING





# Reduce time to proof and solution development leveraging frameworks and agile approach



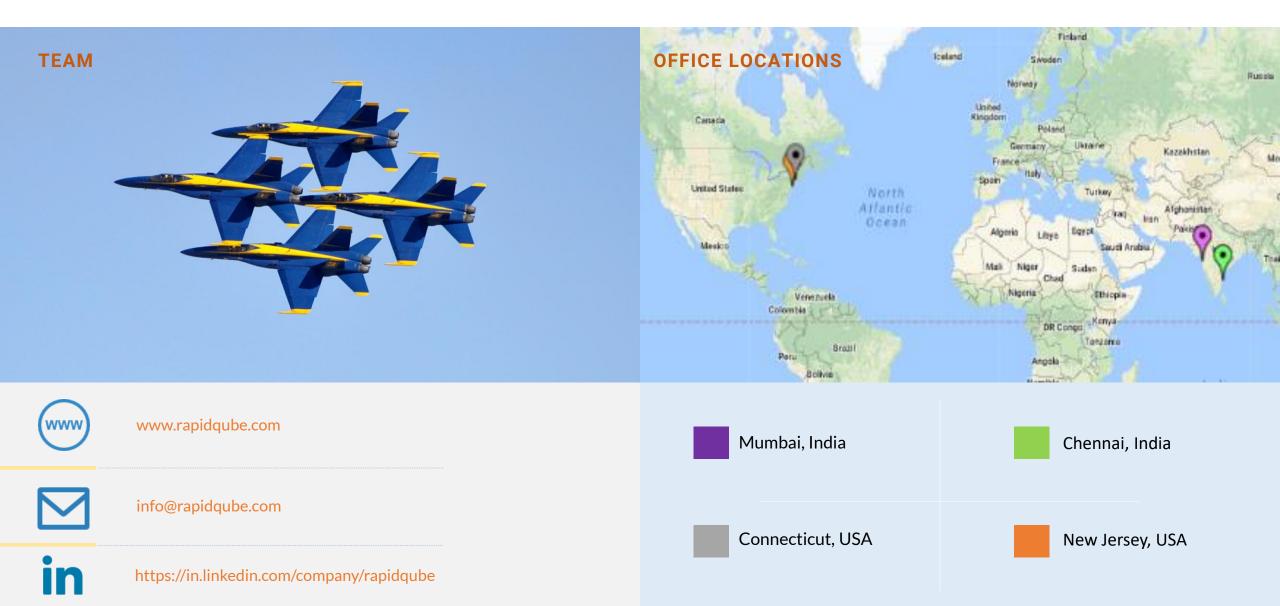
SPRINT 0 Week 1 - 3	SPRINT 1 Week 4 to 5	SPRINT 2 TO N Week 6 to 8 (iterate)	SPRINT N+1 Week n+1 to n+3	SPRINT N+2 >> Week n+3 >>
Understand requirements, Develop business case and deploy framework	Identify product features, define architecture and plan sprints	Develop features, test system and fix bugs (incl. DevOps)	Set-up production environment, deploy and go live	Manage Infrastructure and Support application
Minimum Viable Product (MVP with framework)	Product Backlog UX Wireframes Architecture	Product V 0.1 to Product V 0.n to Product V 1.0	Productionized Application	Continuous Operations

Note: Above is an indicative approach that will be customized specific to the client context and needs.

RapidQube Solutions 2

### **CONTACT**







# **THANKYOU**