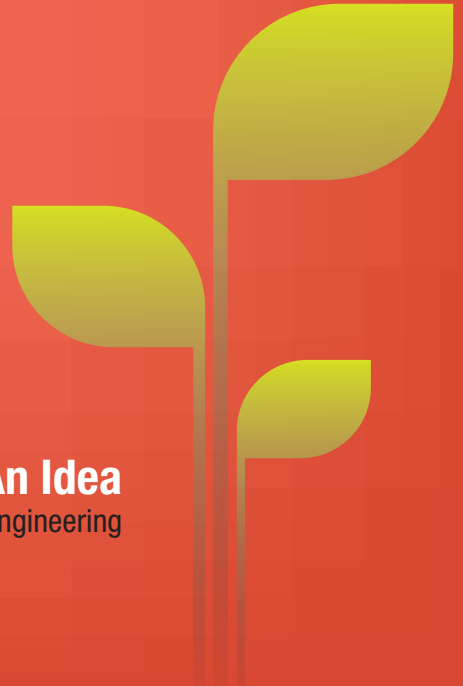




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The Seed of An Idea

Design Engineering





Contributed by Arun Jain

DESIGN ENGINEERING 1



Consider a flowering plant...



Consider a flower

It has a group of petals,
Of different sizes and shapes
But all aligned in presentable beauty.
A Petal on the inward circle knows
It has to grow smaller than petal on
the Outer circle.

Each one of them knows
how much to grow so that
the arrangement creates beauty.



The sepals know that they need to provide protection to all petals till they are ready to expose. It also knows that after flowering they get lost beneath petals and create space for them to grow.

Both Petal and Sepals have intelligence that their purpose is helping procreation which needs to be performed by Androcium and gynocium



The flower also knows that
At what temperature
At what pressure
At what humidity
It needs to take birth.

Where is so much Knowledge stored
And does active intelligence reside in individual parts?



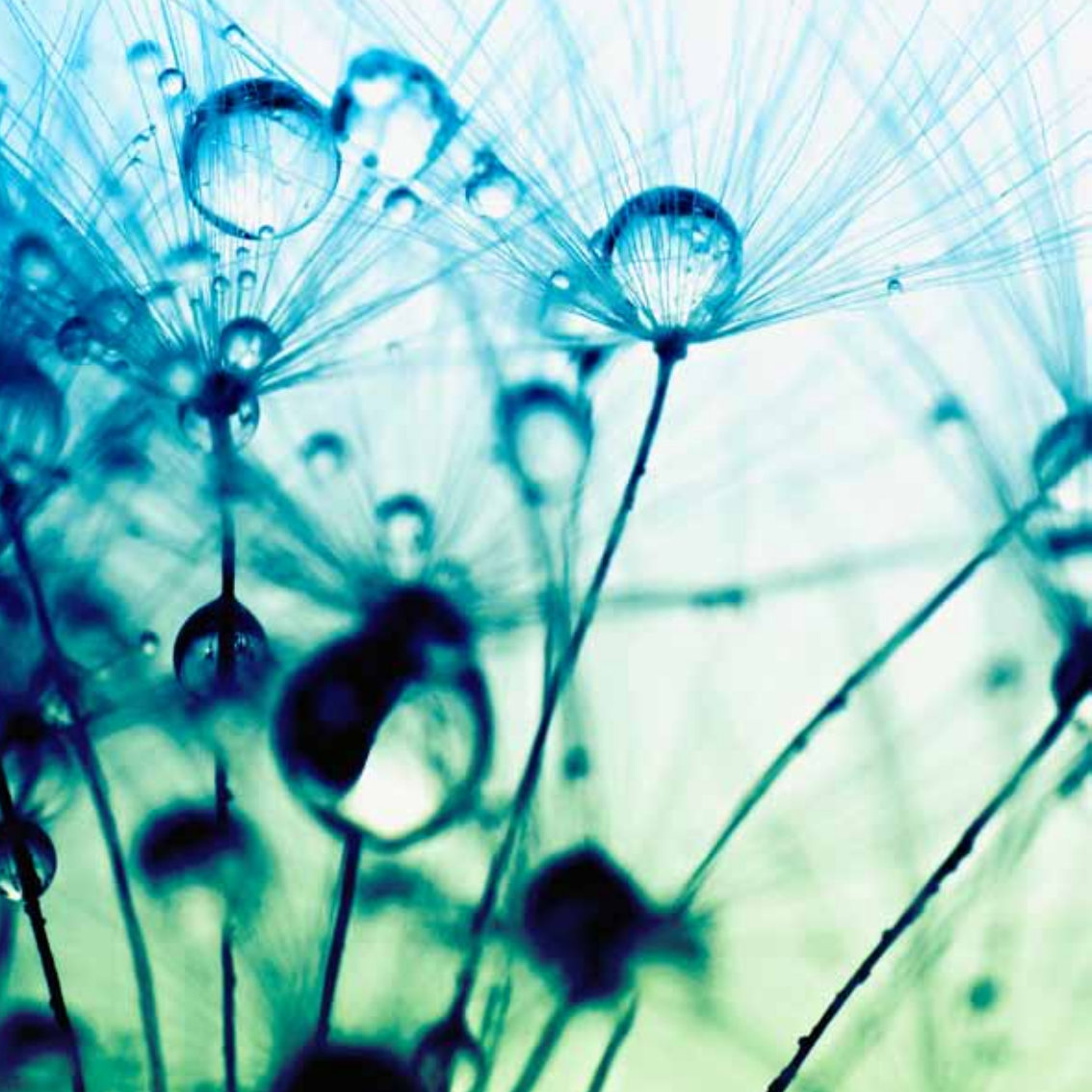
How does each separate part know the role of each other so precisely?

I learnt in biology that DNA stores this knowledge and intelligence. And this DNA resides in each living cell of the plant. And That DNA is common in all cells.



Now the question is
If DNA is common in all cells of plant then
How does it express differently in Sepal or Petals or androcium and
gynocioum?

That's the another example of nature's creation
That **though the DNA is common**
It expresses differently
for each part.



Now next question
To produce specific color,
One needs a specific chemical.
To produce that chemical,
One needs particular metal

Who produces that chemical
or
Who supplies that metal
to the plant
Standing in one corner alone.



The Obvious answer is that the
Roots of the plant plays the role
in extracting the requisite metal from
the soil

Since roots also have same the DNA
How come it can sense the
Minutest metal element from the soil
And convert it into shape and form
to be transported to the flower
'On Demand'

Similar story repeats for the
Stem and leaves.



This is more than just a chance of nature
It has deep design engineering built into it -
A Complete and holistic design.

First someone conceptualized the design
Then
Designed the shape, size, color, texture of the
Plant,
Roots,
Stem,
Leaves,
Sepal,
Petals
etc.



Designed the timings of each part to
Take birth and play its role

Design the sensitivity to the environment of
temperature
Pressure
Humidity
Soil condition
Where such plant can take birth and survive





Though each and every cell carries the same DNA
But even knowledge of what cell needs to use particular
Design rule and when is also embedded in the cell itself.

Amazing beauty of Design Engineering first and then
Embed that design for
Perpetuity.



Connect the Dots!

What does this mean in the world of financial technology?
In how we design solutions?
In how we build for a sustainable tomorrow?
Is there an immediately implementable action point inspired
by this reference material in our workplace?
What is a thought provoking knowledge capsule you would
like to share on the subject of design?

