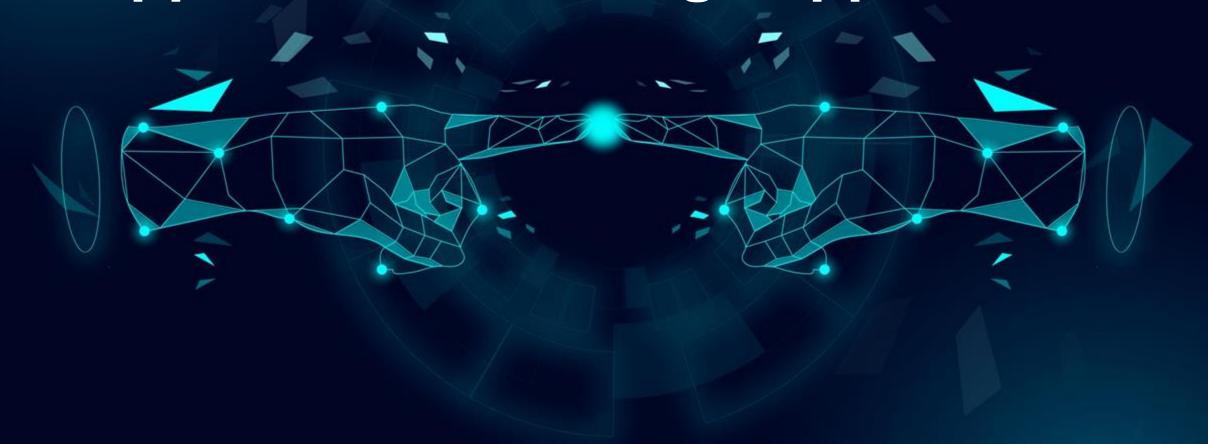






Approach to Al Design application









Content

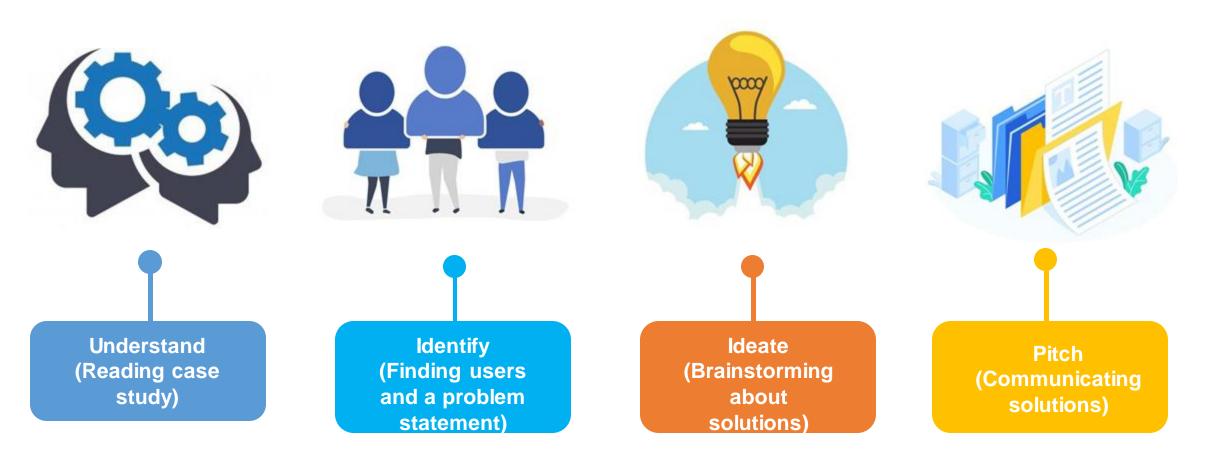
- Approach to Design Al application
- Stage 1: Understand
- Stage 2: Identify
- Stage 3: Ideate
- Stage 4: Pitch







Approach to Design AI application









Case Study of Al in:









Electricians



Automobile



Also you can choose and research as per your interest area!!



Manufacturing Industry



Fashion Industry



E- Commerce Industry



IT Services









Team Creation

(Max team size: 4)









Stage 1: Understand (Reading case study)







The four tasks in this stage























Group Exercise

- Participants can divide themselves into groups of 2-4 based on their area of interest.
- Hand out case studies.
- Each group to read/design their case study then discuss it.
- Each group has to list out the problem area based on their learning from the case study as well as personal knowledge, group discussion and research.









Outcomes:

- Team to decide a single problem area which you want to work on.
- Ensure that the problem definition does NOT contain any solution aspect to it and only states the problem.













Stage 2: Identify

(Finding users and a problem statement)







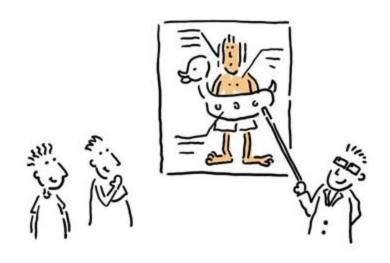
Identify



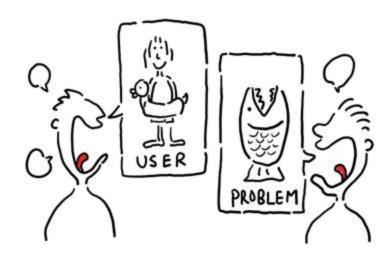
Select



Analyze



Describe









Necessity is the Mother of Invention

The more you know about the user, the more likely it is that you can create successful innovations.









User Identification

- A product or service will only be a successful if the users want to use it.
- Before we start developing ideas for a solution, we must target our potential users and make sure we have a good understanding of the situation and their problems.





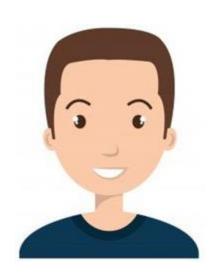


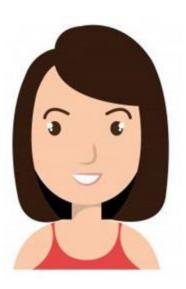


Activity

Select the primary user group you wish to focus on



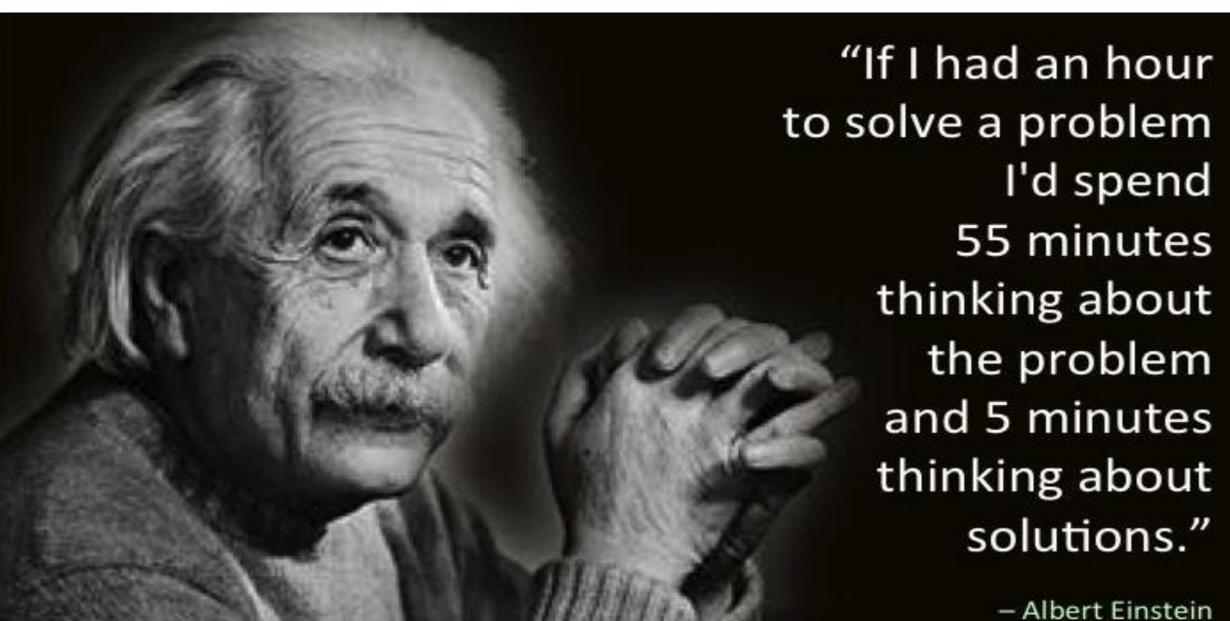


















Painstorming

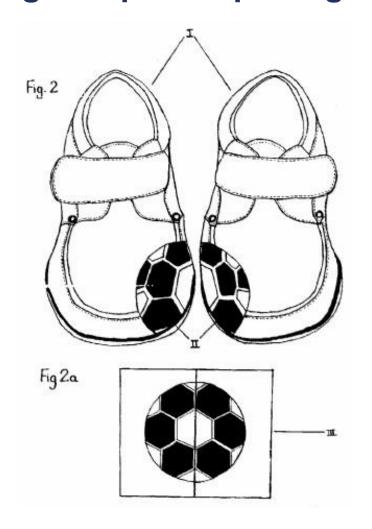


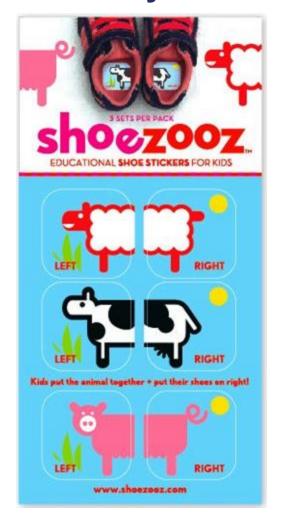






What's the toughest part of putting on shoes for a 2 year old?











What are the pains in organizing books?



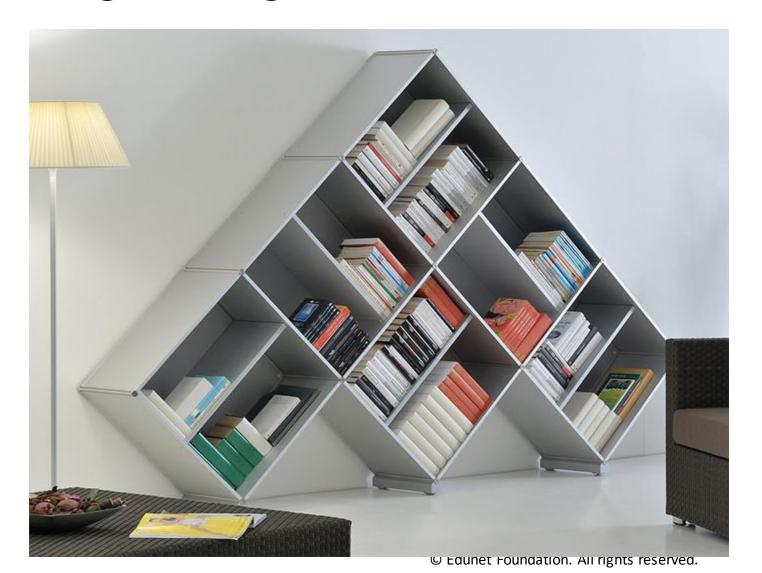








Organizing Books











The pains with this design?

- Opening the bottle
- Getting the ketchup out in a controlled fashion
- Ketchup gets dry around the opening
- Getting the last portion of the ketchup out
- Glass can break a safety hazard











Painstorming

- Millions of women and girls spend many hours doing each year — fetching water
- Balance heavy jerry cans on the head
- Backbreaking work
- Sometimes causes crippling injuries.
- Villagers carry the water container on the head just like their parents and grandparents

But the method did not change until ...









Painstorming – Q Drum



http://www.nytimes.com/2007/05/29/science/29cheap.html?scp=3&sq=design%20problem&st=cse

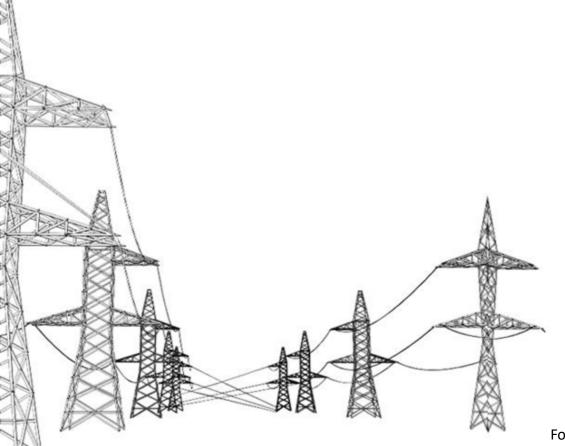






Al solution in Electricity- Example

Siemens has released a software package to operate grids autonomously known as active network management (ANM).





ANM tracks how a grid interacts with different loads of energy Foundatand tweaks its adjustable parts to increase efficiency.







Al at Construction Sites

- Sam- the brick- laying robot is created by New York-based Construction Robotics.
- This bricklaying robot promises to both increase productivity while reducing overall labor costs.







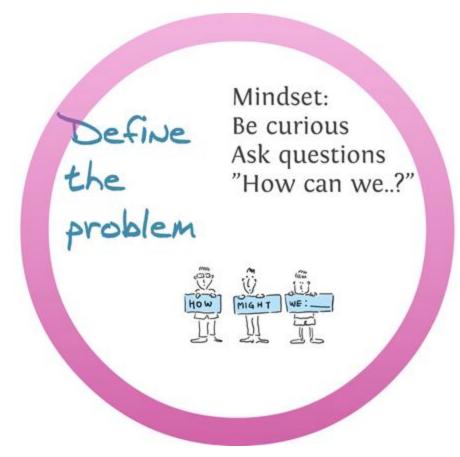




Describe: Scope

Write down one very precise problem statement!

"How can we help X SPECIFIC USER solve X SPECIFIC PROBLEM











Stage 3: Ideate

(Brainstorming about solutions)







Four tasks in the stage

Scope



Sort



Generate



Describe

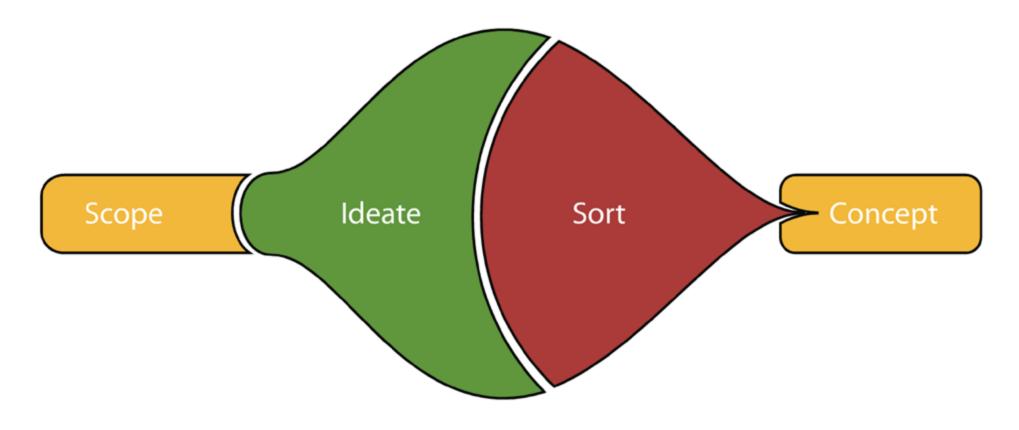








The Creative Process









Rules in Creative Process

- Go for quantity
- See opportunities and forget limitations
- Generate as many ideas as possible quantity over quality!
- No criticism is allowed :don't say "no but", say "yes and.."
- Co-create by building on each others' ideas



I have not failed 1300 times....
I have
successfully discovered 1300 ways to NOT
make a light bulb

-Thomas Edison







Example of Possible Solution Built using Al

Area	Problem	User	Solution
Health Sector	High medical consultation charges	Educated and lower to middle class people	Al app to give medical consultation based on personal medical history and common medical knowledge.
Entertainment Sector	Manual Recognizing Objects in videos	Company in digitization process.	Deploy AI on a film digitization platform to recognize objects in movie.
Bank Sector	Long waiting time for personal assistance	Bank user	Provide Digital Personal Assistants and Chatbots



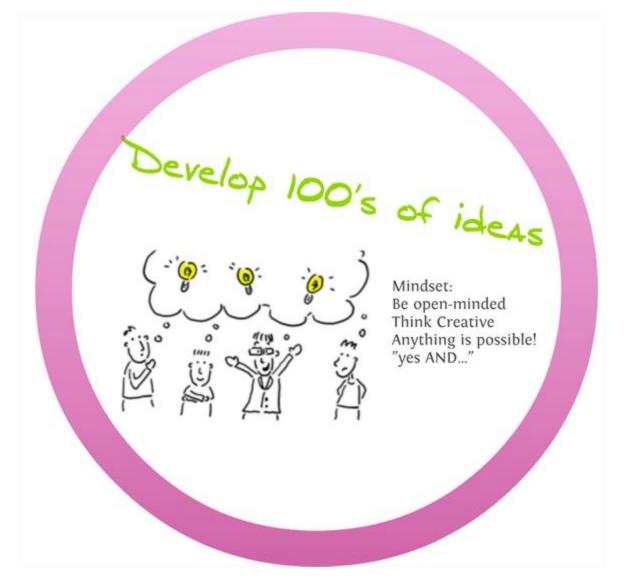




Generate

The best way to have a good idea is to have a lot of ideas!





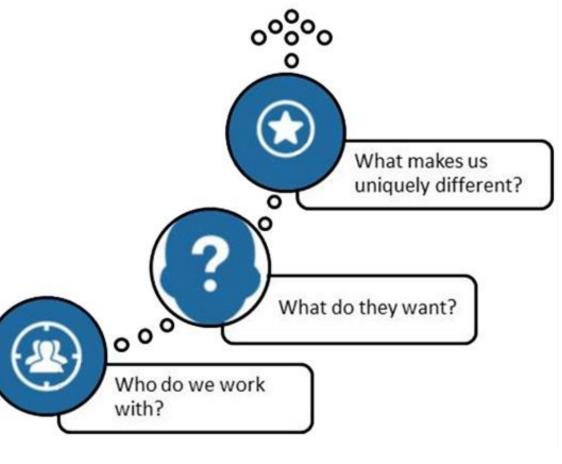






Your solution is converting pain points in to a VALUE for the customer











Sort



@marketoonist.com









Stage 4: Pitch

(Communicating solutions)

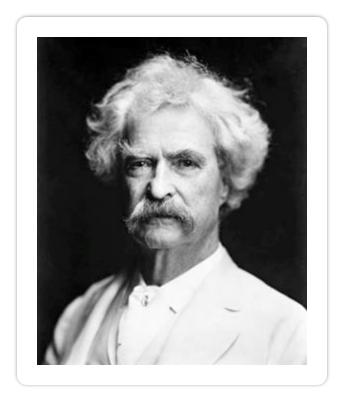






"I didn't have time to write you a short letter – so I wrote you a long one..."





Mark Twain
Famous American
writer

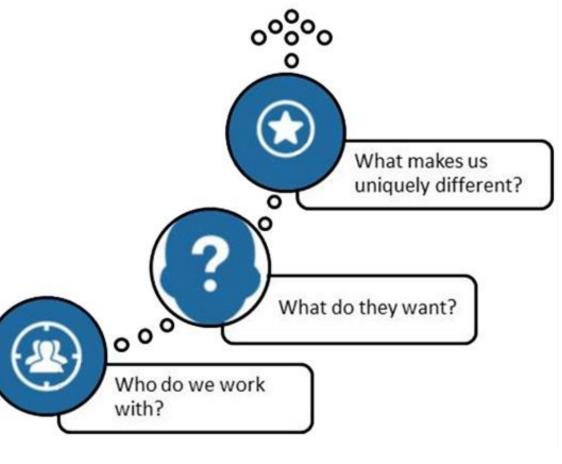






Your solution is converting pain points in to a VALUE for the customer











Al solution in Food Process Industry- Example

- Problem Limited and manual measurements of products in store, as well as delayed data sourced from phone conversations
- Solution Used Trax Retail Execution imagebased technology to take pictures of stores shelves with their mobile devices.













Pitching Template

