SAE SUPRA design elements

SAE India

USP

Layout Package

Proto Build

Presentation

1 Where do you begin Development?

Purpose / Target / Parameters

What is the USP?

USP

What will make your car stand apart?

'out - of - the - box - thinking'

Innovation & Ideation

Evolution



Early 1920's



Mid 1930's



Late 1950's



Mid '60s Lotus -

Pioneering monocoque body construction



Late '60s Lotus F1 –
Beginning of the "winged era"



Mid '70s Lotus F1 – Many firsts

Beginning of "Ground Effect", Composite Construction, Big Sponsorship funding



Late '70s Brabham-Alfa "Fan Car" – the reverse Hovercraft principle





Late '70's -

The 6 wheelers March and Tyrell

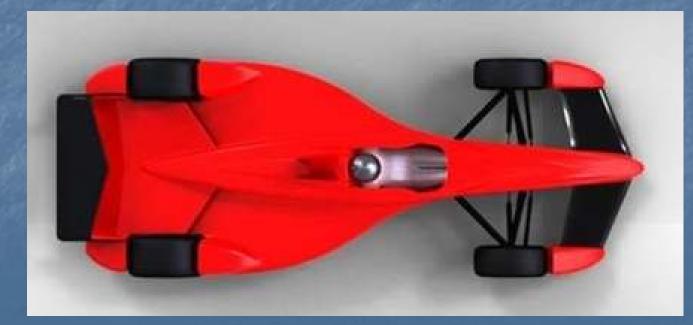


Futuristic Innovation – Hubless wheels





Dallara -Indycar aero concept





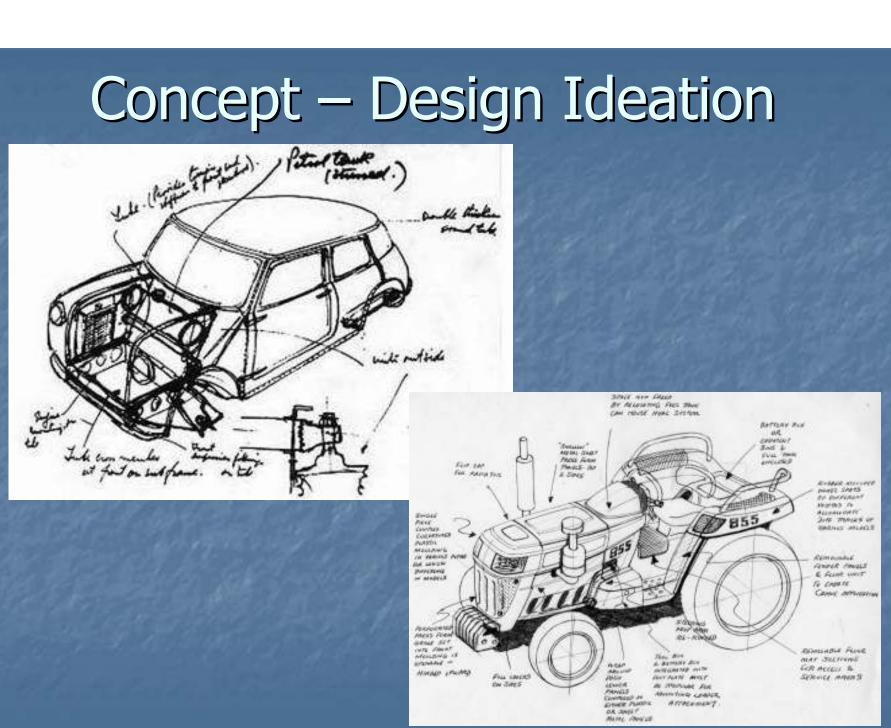
Futuristic aero interpretations

Concept – Design Ideation



Concept – Design Ideation





2 How do you start designing?

Make Man adapt to machine?
Or

build machine around Man?

The SeatPack

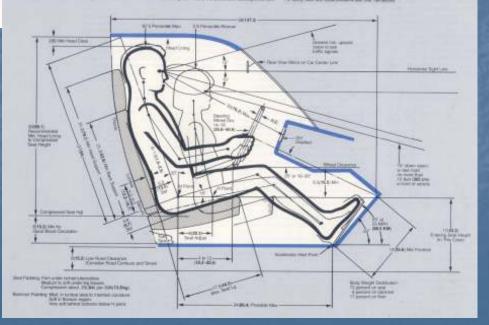
Comfort Safety

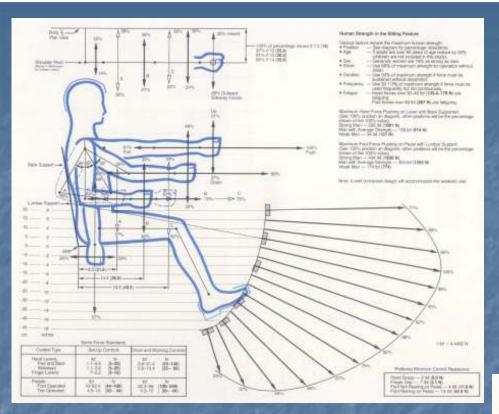
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Human Factors

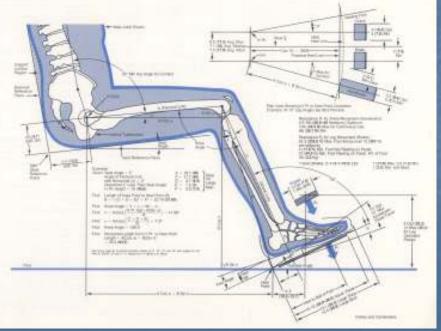
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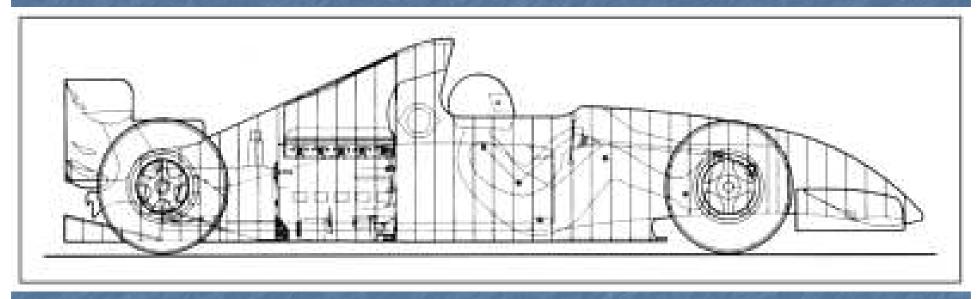




Human Factors

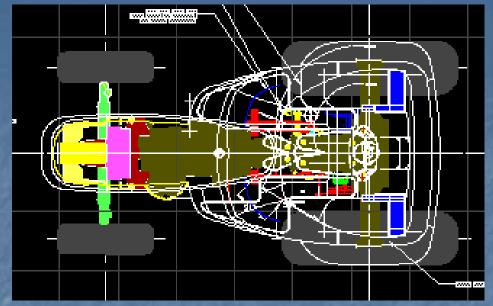


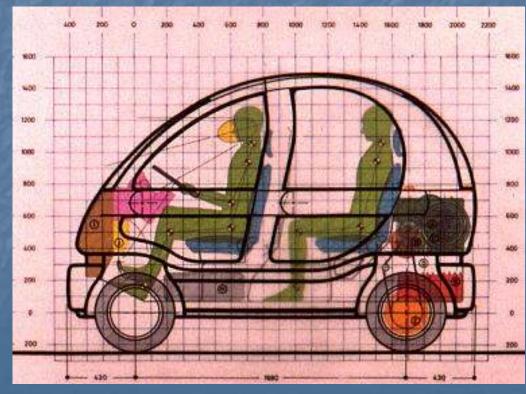
Layout Package Central to the design process



- Space planning and composition
- Definition of body envelope and panel configuration
- Human comfort and safety
- Homologation and regulation compliance
- Service and accessibility
- Manufacture and assembly
- Feasibility and costing

Layout Package other examples





3 Proto Build

Process

Quality — fit and finish

Engineering Art

Process Body volumes



Process Body volumes



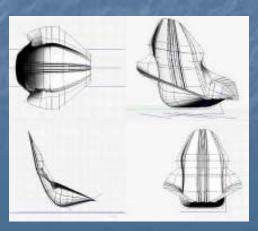






Process Parts











Engineering Art



4 Presentation

Building Brand Identity
Cult & Presentation
Marketing & Re-Source

Graphics & Livery - Cult













Brand Marketing — Sponsorship Visibility



Promoting Indian Identity and its contemporary culture (Virtually) Selling Liquor and Beer Selling an Airline

Formula Racing A Multi Discipline Activity

Management
Human Resources — Team Organizing
Design
Engineering
Visual Communication
Promotion Marketing