# Child Seating Solution for Shared Bicycles development process and alternative ideas that were rejected 

## Seating Configuration



+ SOCIALLY MORE FUN
+ RETTER STABILITY
+ brtter perception of EFFECT TOWARDS HEALTH CNOT INHALING FOHES DIRECTLY)
- COULD CAUSe TLAVIl SIClNESS
- CAN'T SEE FORWARD

$$
\begin{aligned}
& \text { SUITABLE FOR OLDER } \\
& \text { CHILD }
\end{aligned}
$$



## Short Term Rent Initial Proposal (feature omitted)



## Long Term Lease Proposal



## Belongings Management I



## Belongings Management II (Final)



## Bicycle Attachment Mechanism - Part I



## Bicycle Attachment Mechanism - Part II



## Child Loading Mechanism I



## Child Loading Mechanism II

(1) SlIDING StARCASF

(2) RIXED STAIRCASR


## Child Loading Mechanism III (Final)




AlLOWS INDBPENDENT CLIMBING TO SEATING ARBA

## Interaction with Water I



Interaction with Water II


## Interaction with Water III (Final)


ALSO BFFBCTIUF ABAINST AIBAT

```
NON WFOTEL TO PRIP
```

NON WFOTEL TO PRIP
RROM THE SIDR + DOBSNTT
RROM THE SIDR + DOBSNTT
BCOCM HBADWACY

```
BCOCM HBADWACY
```


## Utility beyond Cycling - Car Seat (feature omitted)



## Utility beyond Cycling - Public Transport/Other Public Places (feature omitted)

+ more achirvablb THAN `CAR MODE CDUR TO THR REGS \& SAFBTY SURRDUNDING CAR CHLCD SEAT)
+ ENCOURAGES MORE USE OF BICYCLE CAS THB OF BICYCLR CAS THE CHILO SEAT IS USER
AT DBSTINATION)
+ fncourages une or PUBLIC TRANSPORT


MAIN USE CASB: ON A BICYCLE


Safety Consideration I


## Safety Consideration II



## Safety Consideration III



## Safety Consideration Alternatives I

(1) UBST harness


Safety Consideration Alternatives II

CREDITS TO SOCENZA \& SANJBENL


## Safety Consideration Final



PLANE LIKB BUCKLE HARD TO UNDO TO
PRBUBNT ACCIDENTAL PRBUBNT ACCIDENTAL
UNDOING


Footrest Design I


Footrest Design II


## Footrest Alternatives I

(1) Dovblb pinot

(2) Sliding piver


## Footrest Alternatives II

(3) BXTENDING ROOTREST

SIMILAR TO (2), BUT THE ADJUSTMEINTS ARE
MORE PERMANENT CREOURES TOOLS

(4) SLIDB-IN


GFRERS NO ROLDING/THIGH ADJISTMBNT, BUT SIMPLER

## Footrest Design Final



ADJUSTABLE
FOOR IANGTH


TWO POSTIIONS WHBRE MBCHANISM WOULD LOCK,
PRRUBNTING IMPROPER USE

