

Masters Stephen

choose  
evaluation

Problem statement:

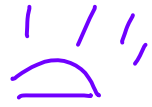
- IoT remote areas
- update // log "big" data

Use case:

- solar equipment
- M2M (data traffic)

# Remote Farming

# Smart Farming



① - use case / challenges

② - requirements

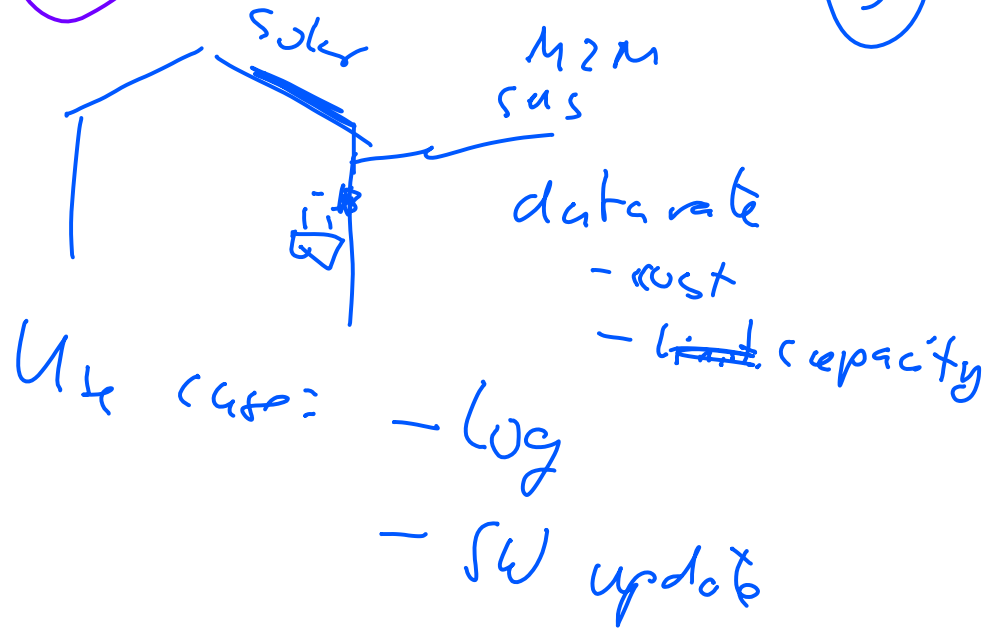


③ analysis / eval on technologies

Raspberry Pi

Mesh edge processing

(A) Use case



3-5 alternatives

- techn.

Eval criteria

- cost
- data amount
- (edge <sup>answer</sup> processing)

3

	$H_1$	$H_2$	$H_3$
$T(x) = a$	1	0	-
$\vdots$			
<hr/>			
$w_m$			
$\vdots$			
<hr/>			
$\vdots$			

My basis  
for R&D  
proofs  
elaborate

① (A) USE CASE  
Smart Farming



(A<sub>2</sub>) solar powered

irrigation

water pump

tank

distribution

"metrology"

plant need

people education

Goal:

data collection

data evaluation

meas. equipment

└ solar intensity

└ humidity

NCA

T<sub>E</sub> → 10 water tanks

⇒ backend

Specific ←

trending video

prediction

$A_3$

Solar



humidity