WATER RESILIENCE IN THE GARDEN



PERMACULTURE DESIGN

ву

Aleksandra Kudojare Boris Ginzburg

"When I was a little boy,

I liked to catch the rain

While people all around my town

Watched it flow right down

the drain..."

"There's no Such thing as waste,
Uisusing water's a disgrace"

Jornidable Vegetable

THANKS TO:

BILL MOLLISON AND DAVID HOLMGREN, FOR GIVING US PERMACULTURE; TRINE AND LISE FOR MENTAL SUPPORT AND PRACTICAL HELP WITH THE DESIGN; DELVIN SOLKINSON FOR HIS STATE-OF-THE-ART ENCOURAGEMENT, BELIEF IN, AND APPRECIATION OF, OUR WORK; PER AND MARIANNE FOR BEING MOST KIND-HEARTED NEIGHBOURS; KAROLINE, CATHRINE AND THYCO FOR A GREAT PDC COURSE AND A SUPER HANDY PERMACULTURE TOOLBOX; BARBARA, SKYE JIN AND MALI FOR SPOT-ON IDEAS.

THE DESIGN WOULDN'T BE POSSIBLE WITHOUT BORIS AND HIS SKILLFUL ENGINEERING AND ARTISTIC WORK. AND SPELL CHECKS.

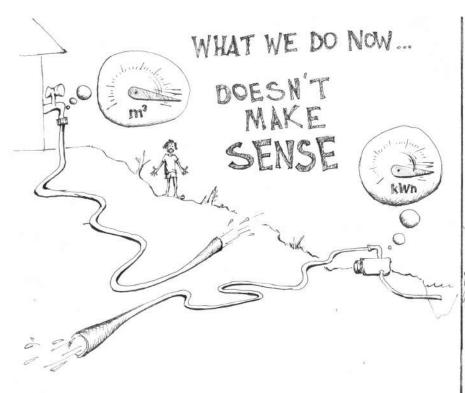
DISCLAIMER:

THIS COMIC IS A COMPRESSED VERSION OF WHAT HAPPENED. IN REALITY THERE WERE MANY MORE STEPS AND A LOT MORE TRIAL-AND-ERROR. FOR EXAMPLE, THE FIRST RAIN BARRELS WE BOUGHT. AND THEN MY FRIEND TRINE OFFERED USED TANKS. THEY WERE WHITE, SO WE BOUGHT SOME BLACK COVER MATERIAL, WHICH WAS DESTROYED AFTER A YEAR BY THE WIND. THEN ONE DAY, OUR NEIGHBOUR PER HELPED OUT WITH BLACK TANKS. AS CAN HAPPEN WITH A MOVIE BASED ON A BOOK, HERE TOO, WE HAD TO CUT DOWN ON DETAILS, TO KEEP THE STORY A BIT MORE CONCISE AND THE NUMBER OF ILLUSTRATIONS TO A MANAGEABLE QUANTITY. WE LEFT OUT SOME LINKS IN THE CHAIN. WE HOPE THE CHAIN STILL MAKES SENSE AND CAN SERVE









SOMETIMES I USE
THE WATERING CAN...
BUT IT'S NOT VERY EFFICIENT.



SO WHAT'S NEXT?

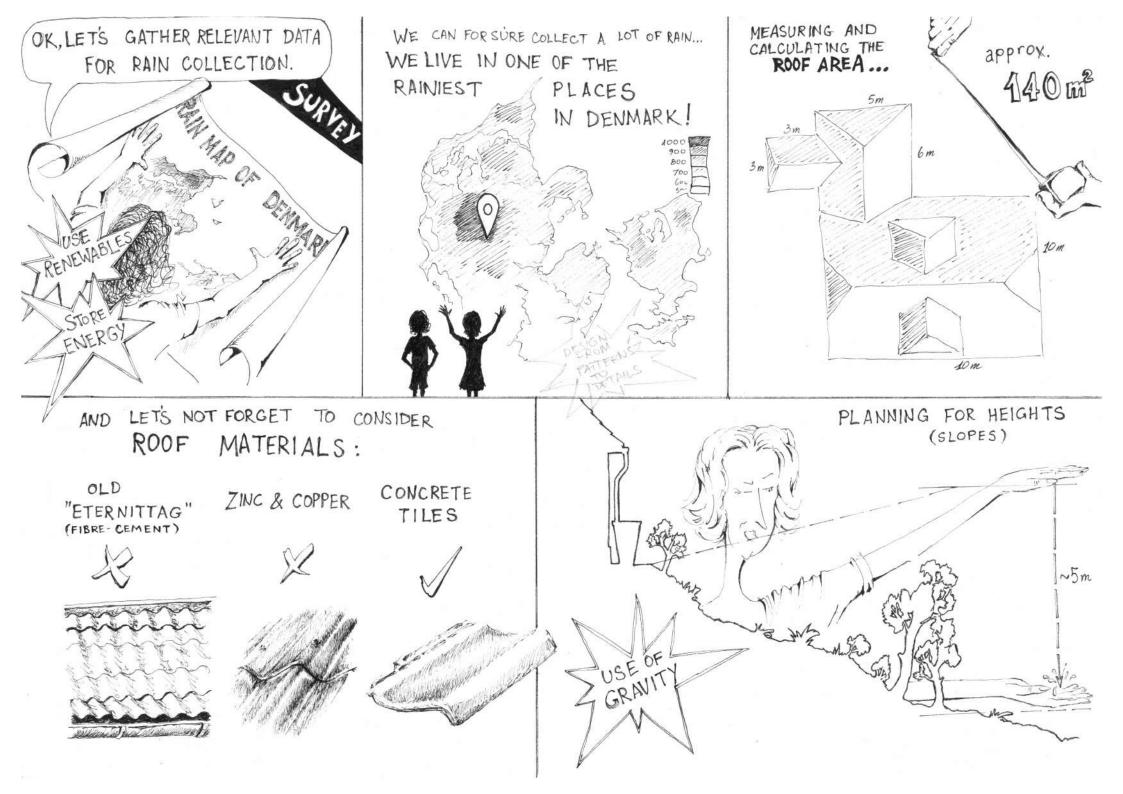
WE CAN FOLLOW THE GOSADIMET *
DESIGN FRAMEWORK

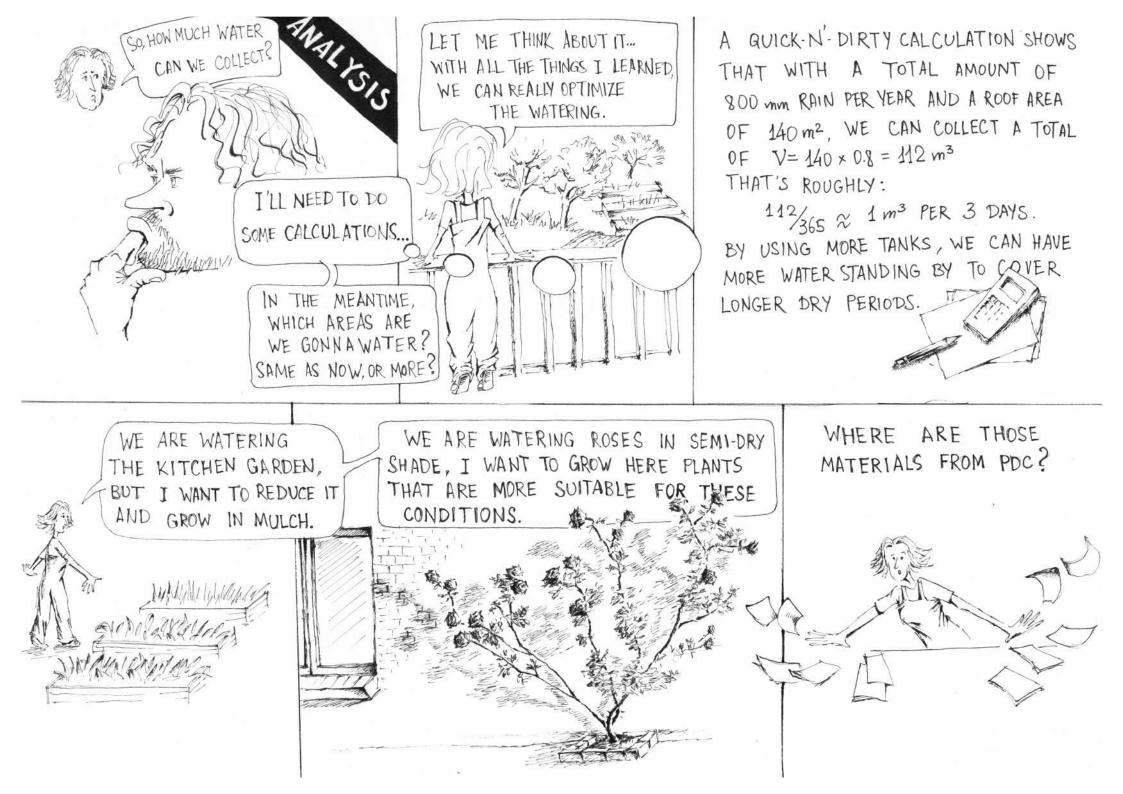


* SURVEY, ANALYSE, DESIGN, IMPLEMENT, MAINTAIN/MONITOR, EVALUATE, TWEAK. TO MAKE SURE WE HAVE WATER TO COVER OUR NEEDS IN THE GARDEN, USING NATURAL RESOURCES,



AND WITH AS LITTLE
INVOLVEMENT FROM US
AS POSSIBLE:





UNCOVERED SOIL IS PRONE TO EROSION

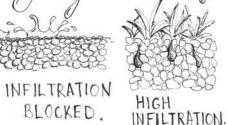
RAIN DROPS SHATTER SOIL PARTICLES CRUMBS. FINE PARTICLES SEAL THE SURFACE.



INFILTRATION

DISLODGED BLOCK SOIL PORES

PLANTS PROTECT SOIL FROM RAIN DROPS IMPACT., DAMS ARE FORMED.



WITH THE RIGHT AMOUNT OF MULCH AND GOOD GROUND COVER PLANTS, I'M SURE WE WON'T NEED TO WATER IMOST OF THE AREAS. THANK GOD WE HAVE THESE BIG TREES!





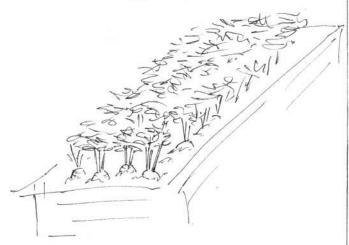








... FOR THE KITCHEN GARDEN



BUT WON'T THE TANKS SPILL OVER?

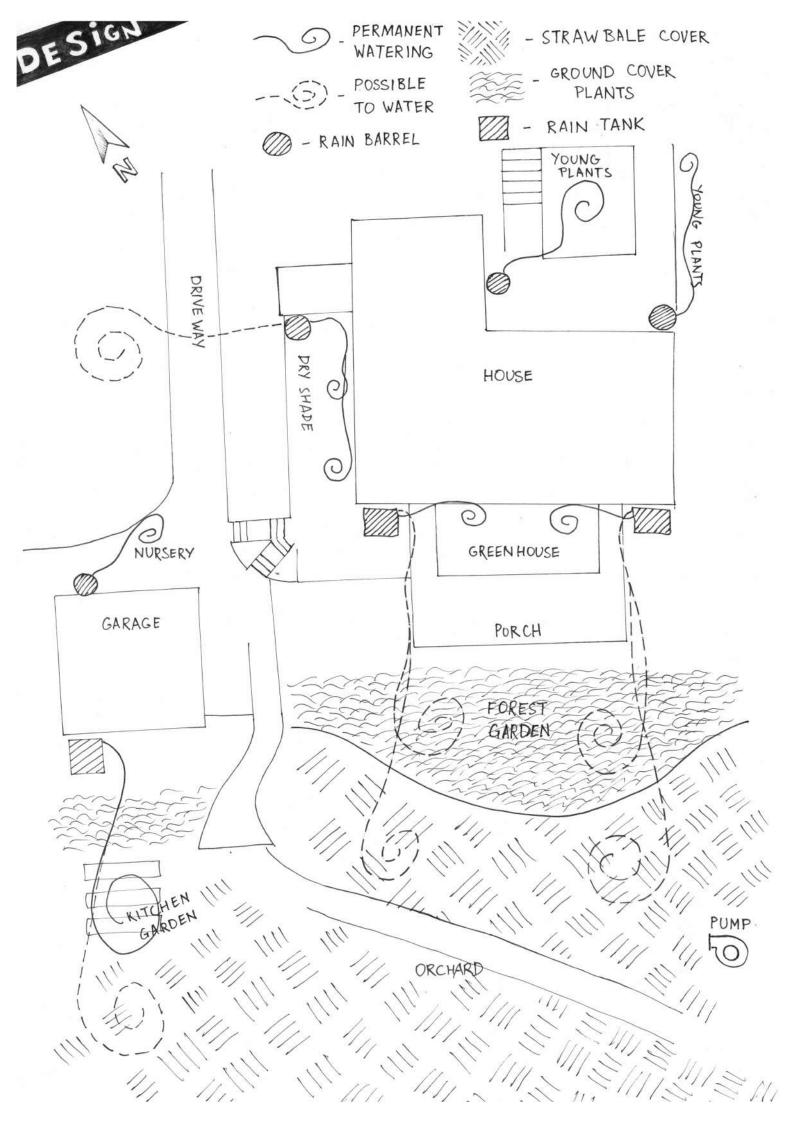


NO - THERE IS AN OVERFLOW OUTLET 30 CM BELOW THE TOP OF THE TANK, WHICH CAN CONTAIN



DEPENDING ON ROOF AREA EACH TANK WILL COVER, IT'S ROUGHLY:

0.3 m³/_{30 m²} = 10 mm OF RAIN, WHICH
IS EQUIVALENT TO 2h STRONG
RAIN (NOT A CLOUDBURST - THEN IT'S
RETTER TO FMPTY THE TANKS).



SERENDIPITY

- THE OCCURENCE

AND DEVELOPMENT OF

EVENTS BY CHANCE

IN A HAPPY OR

BENEFICIAL WAY.

SHOULD HE BE PLAYING WITH IT?

I MEAN, WE ARE TRYING TO

SAVE WATER.

PLEASE, CAN IT BE MY BARREL?

WHAT DO YOU THINK?

WELL, A MONTH AGO WE HAD NO RAIN COLLECTION AT ALL.
YEAH, LET IT BE HIS BARREL.



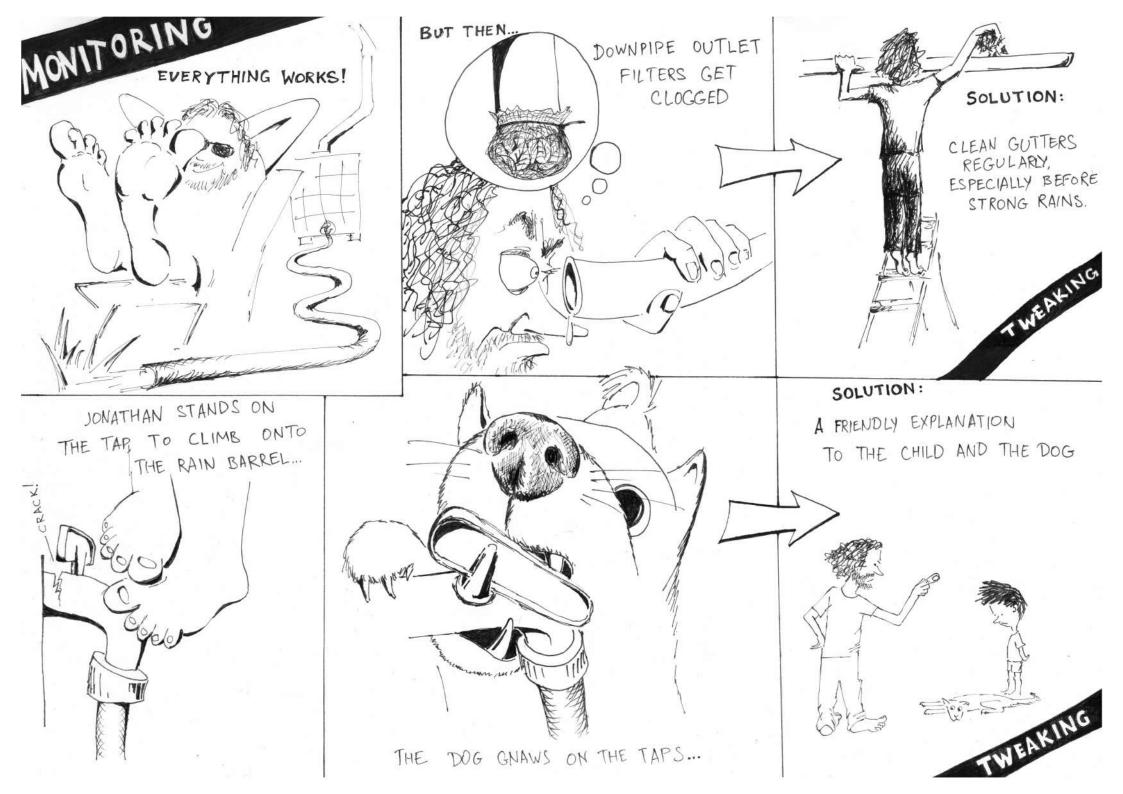
TWO WEEKS LATER ...



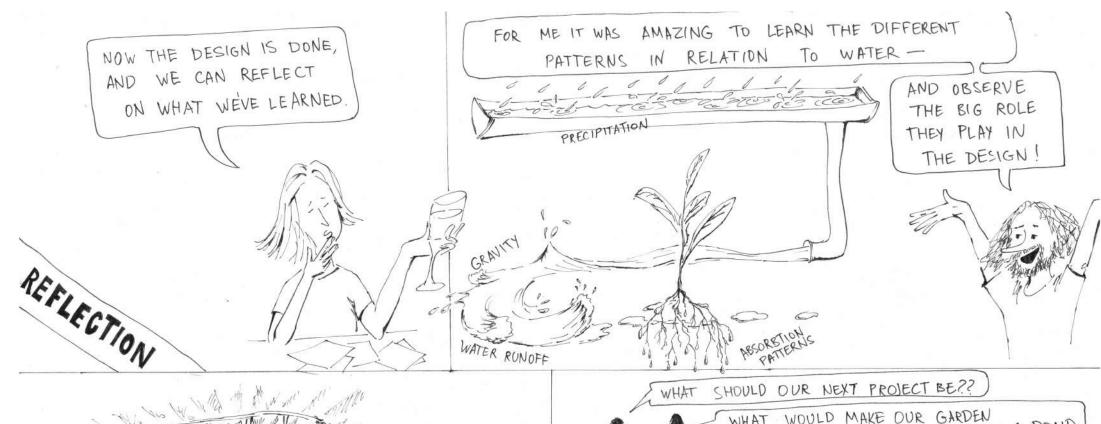
THREE WEEKS LATER ...
BACK FROM THE BEACH

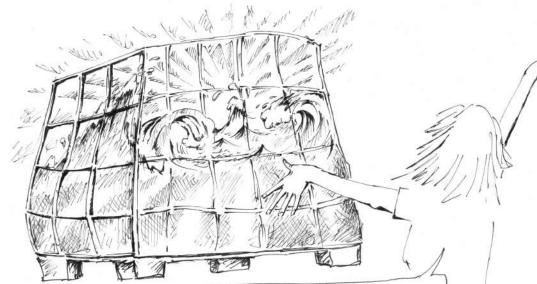












FOR ME IT WAS HOW THE PRINCIPLES WEAVE INTO EACH OTHER: USING RENEWABLES, CATCHING AND STORING ENERGY, PRODUCING NO WASTE, INTEGRATING RATHER THAN SEGREGATING.



WHAT WOULD MAKE OUR GARDEN EVEN MORE RESILIENT IS TO HAVE A POND. THIS WOULD INCREASE BIDDIVERSITY EXPONENTIALLY. WATER IS A MAGNET FOR LIFE!



DOES THAT MEAN WE HAVE TO DO A DESIGN AGAIN?

YES, ABSOLUTELY

GOSADIMET?

MAYBE OBRADIMET, OR CEAP, OR DESIGN WEB, OR ZENIFY!