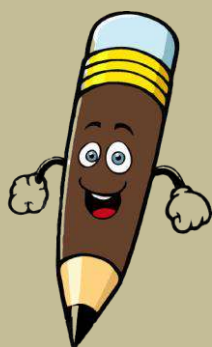
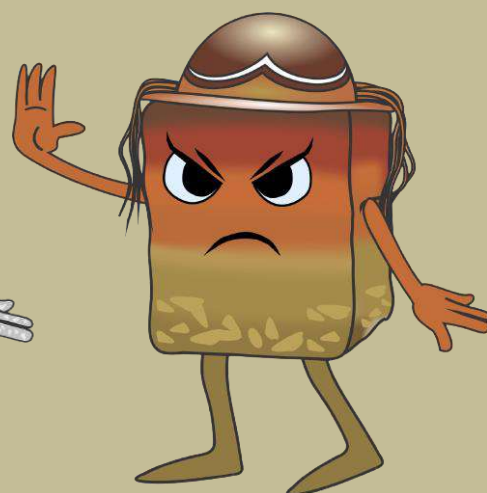
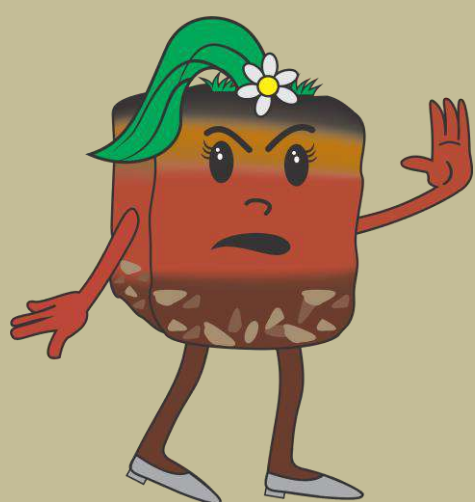


*Get out of here, salinity, leave my soil alone*



*Illustrated by*

Hi, welcome to Soil School. I'm Ana Terra and this is Luvi. Today we are going to talk about a very serious subject: soil salinity. Connect there!

That's right. Soil is very important, and everyone needs to know how to take good care of it!



Did you know that our good old salt is one of the most precious foods known? Did you know that salt is present everywhere?

sea



air



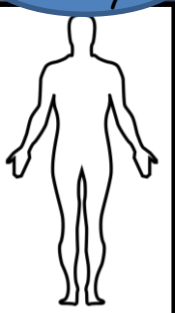
water



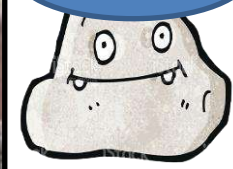
food



human body



rocks



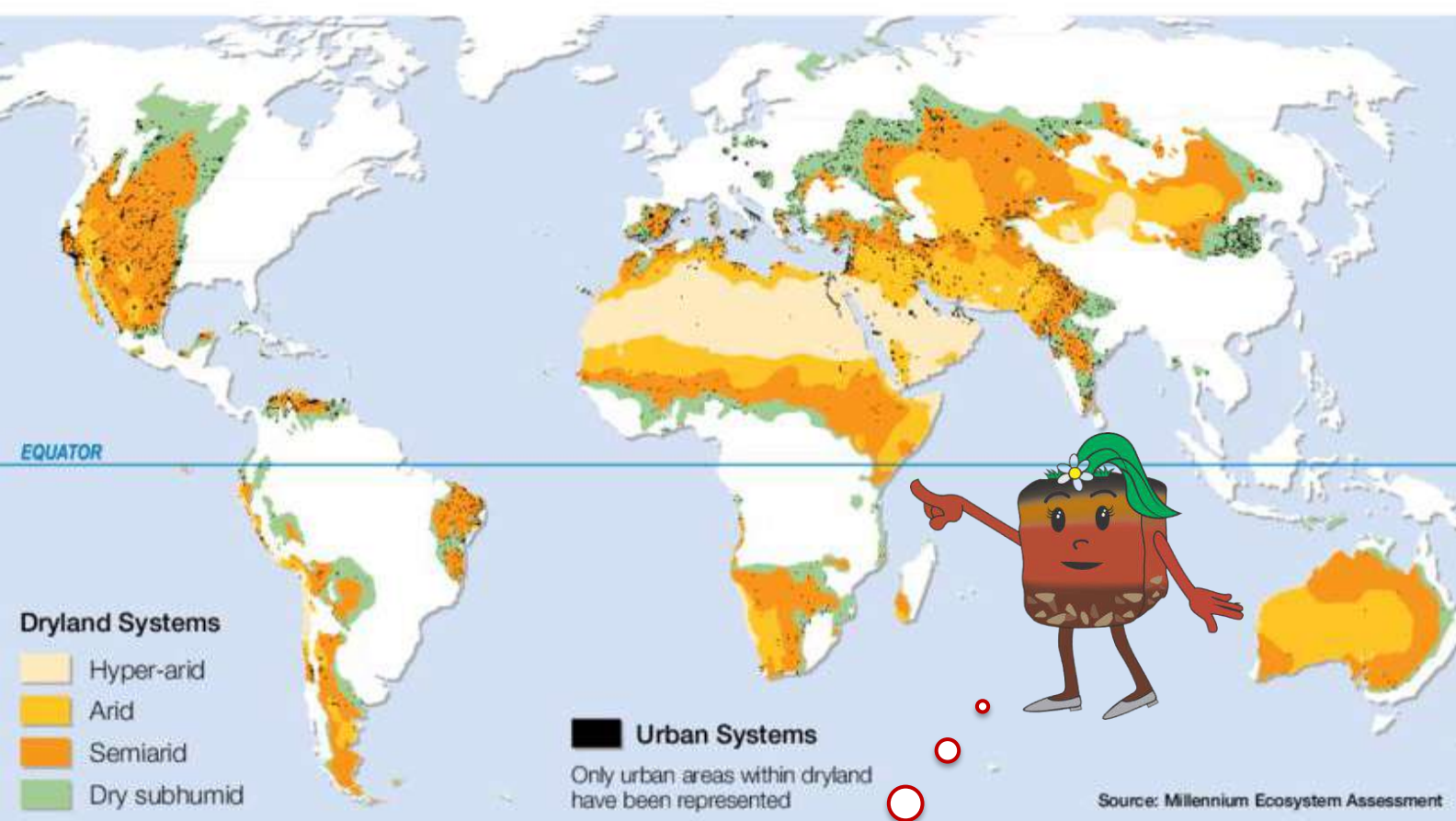
Salt accumulation in the soil, or soils affected by salinity and sodicity is a serious problem.

And in the SOIL...





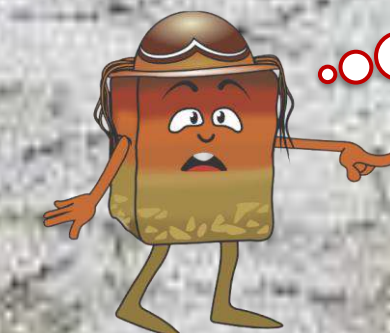
Soils affected by salinity and sodicity occur on all continents and in almost all climatic conditions, but their distribution is relatively more extensive in the arid and semi-arid regions of planet Earth.



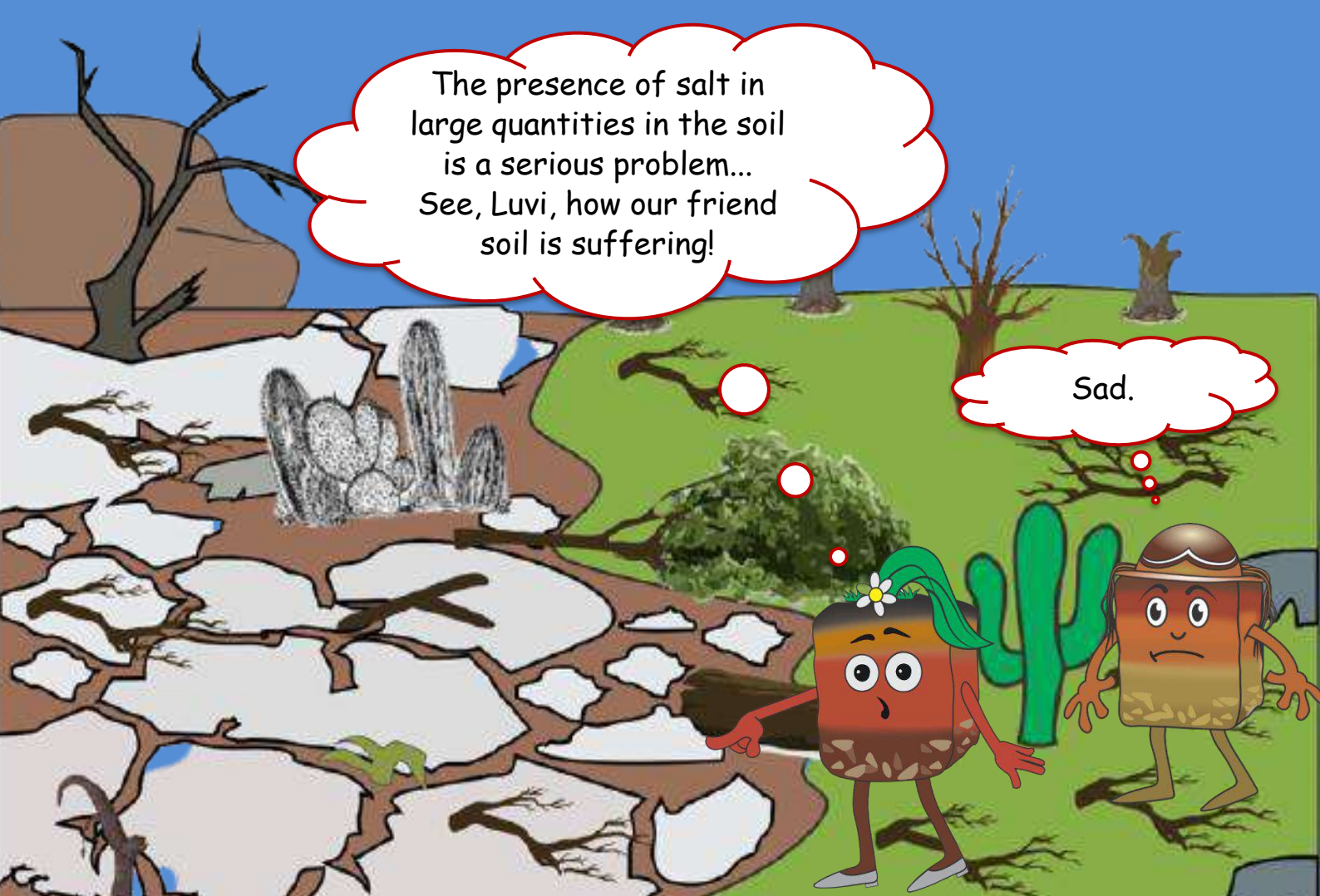
See the map of the world's drylands!

See how the earth gets white spots! It even looks like a desert!

Soil salinity is a serious process of soil degradation that threatens agricultural production, food security, water quality, soil biodiversity and life's sustainability.







The presence of salt in large quantities in the soil is a serious problem... See, Luvi, how our friend soil is suffering!

Sad.

Did you know that soil salinity and sodification is present all over the world?

With soil salinity the whole plantation was lost!

How tragic!

Yes, when salinity takes over, the soil no longer produces anything!





Look out, Ana  
Terra..

Hi, can you  
introduce yourself  
to our friends  
please!?

Oh, oh... I'm  
Sales Salty..

You don't look  
good to me!

I'm saline, too many  
soluble salts on the  
surface

Soluble salts include:

Sodium



Potassium



Calcium



Magnesium



Chloride





You are really salty, what made this happen?



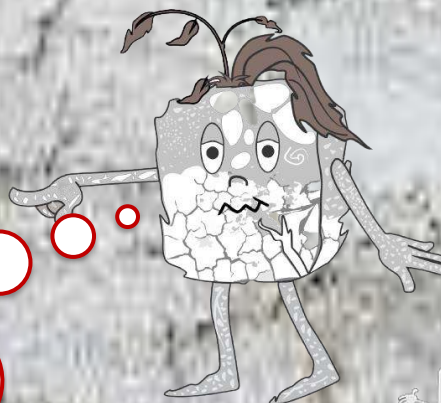
Soil salinization occurs when soluble salts are retained on the soil surface. It happens naturally as in the soils near the seas.



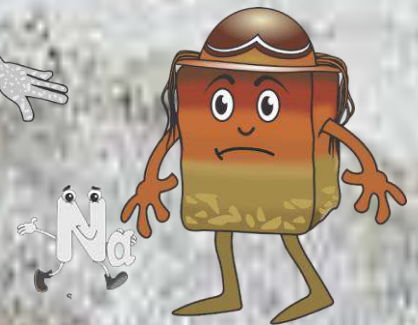
Tell us more about the salinity of soils, please!



Well, several factors make salinization happen, for example, hot places with little rain, have high evaporation that leaves the salts on the soil surface.,



But some human actions aggravate this situation.. improper anthropogenic activities.



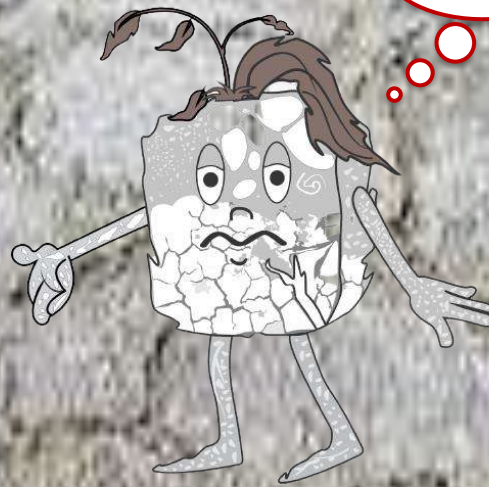
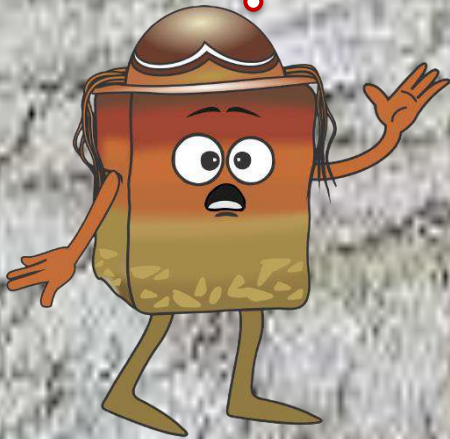
In general, salt-affected soils are categorized as saline, sodic and saline-sodic, depending on the salt content.



Wow,  
anthropogenic  
activities, like  
this? explain  
better.

Removal of deep-  
rooted vegetation and  
inappropriate  
application of  
fertilizers,,,

Irrigation with  
salt-rich water..



What can we  
do?

Good  
question!



Soil is a great living and life-sustaining organism, it becomes ill and cannot carry out its activities any longer, that is, the well-being of all living beings, so we all need to be aware of it.



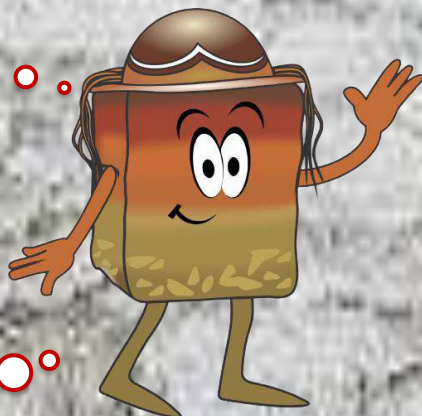
Soil salinization takes up to 1.5 million ha of farmland per year out of production and it is necessary for us to raise awareness on the issue of salt-affected soils!

How?



Investing in research and technological innovation for managing soil degradation and restoring areas affected by salinity.

Technological innovation?

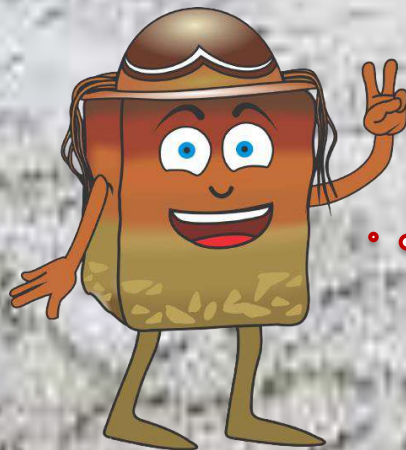


Wow, like drains and drip irrigation!

Great! And tree planting and agro-forestry systems!



Develop public policies  
for good land use.

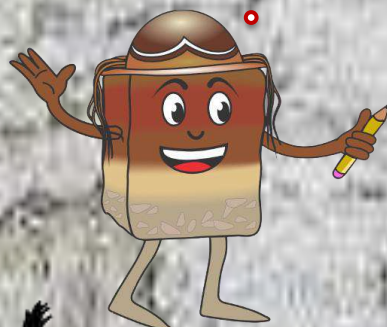


Yeah!!

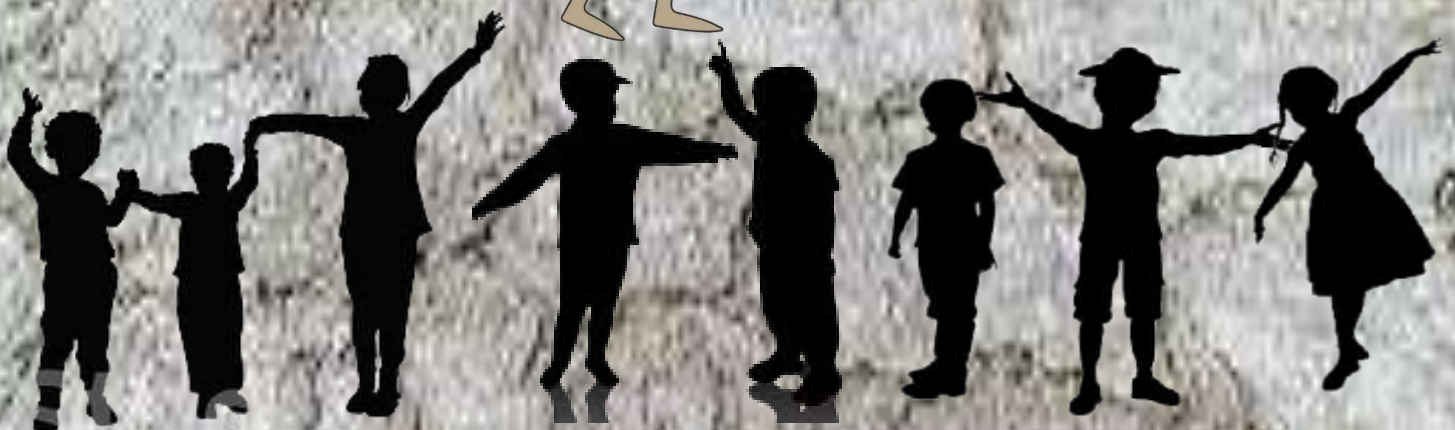
And what I think is coolest:  
promoting soil education for all  
people, especially with  
children!



Me too! How  
bout you,  
fellows?



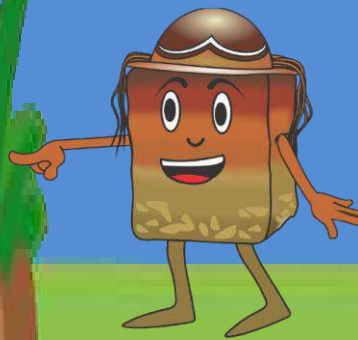
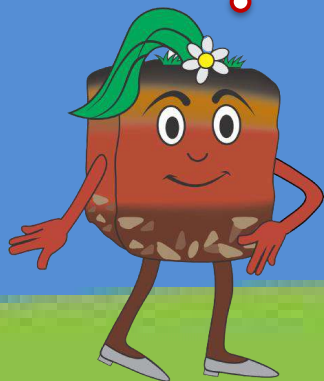
I liked this  
idea!





Let's learn more,  
folks. Caring for soil  
salinity must be a  
commitment for all of  
us!

Yes, keeping the  
soil fertile makes  
life better!



Happy soil is  
soil without  
salinity!

So let's learn  
more about  
soil to take  
good care of  
it!





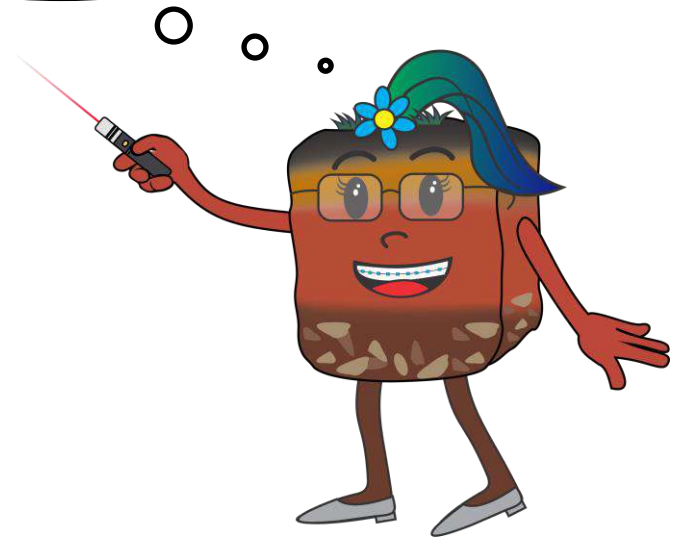
Salt-affected soils have serious impacts on our lives. We need healthy and fertile soils to have quality of life and to live well! Let's talk about soils everywhere. Soil is life!





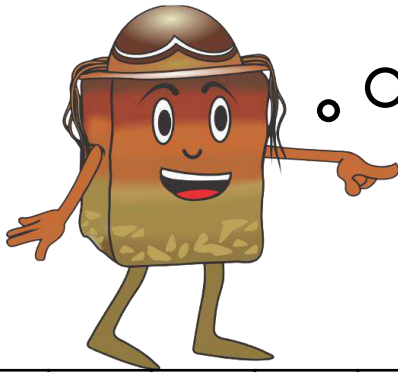
# LET'S PLAY A LITTLE?

*How about making a nice drawing  
or poem of a well-kept soil?*





*How about finding  
words from the subject  
we studied?*



R	S	E	R	S	Y	I	F	S	K	V	F
W	O	W	S	A	S	A	O	L	I	C	E
D	I	A	I	L	Y	O	O	O	I	W	R
R	L	S	U	T	T	W	D	T	M	W	T
A	E	A	P	A	G	E	S	I	N	C	I
A	D	L	L	F	B	N	E	P	U	D	L
D	U	I	M	F	H	S	C	L	P	M	I
G	C	N	N	E	I	E	U	J	O	Y	Z
B	A	I	T	C	A	M	R	H	S	N	E
Y	T	T	E	T	A	I	I	J	T	O	R
I	I	Y	O	E	E	A	T	O	L	I	S
P	O	M	U	D	C	R	Y	A	T	T	X
O	N	L	C	S	V	I	W	W	Y	A	T
N	Z	K	S	O	B	D	A	E	H	G	Y
S	A	Y	S	I	Y	Y	A	Y	B	I	R
S	D	N	A	L	M	R	A	F	W	R	D
L	E	W	E	S	W	T	Y	H	E	R	X
A	N	T	R	O	P	O	G	E	N	I	C



This booklet is a special way to celebrate World Soil Day (December 5) and talk to children about the importance of soil, warning them of the serious problem of salinity, which should be understood as a soil disease, and therefore, we all need to learn more and take care of the soil.

*"Halt soil salinization, Boost soil productivity"*

