Proposal for greening with environmental-friendliness



Evergreen Kirinsou Association



What is the Sedum Kirinsou?

It grows naturally in various areas of Japan and Asia.

Evergreen Kirinsou Newly developed patent plant

Feature of Kirinsou



Strong in the hot and also in the cold.



Strong in dryness and also in excessive moisture.



Low maintenance

(Only a little water is necessary for planting. Natural rainfall is enough in Japan. Cropping is not required unlike lawn.)

Feature of Kirinsou-1



Strong in the hot and also in the cold.



hot.

Kirinsou grows up energetically.



Examination of passing the winter in the VT, United States
The lowest temperature -40 degrees

Feature of Kirinsou-2



Strong in dryness and the excessive moisture.



After one month of no soil and no water, above is a state which Kirinsou is alive without withering.



The environment which the root is under water is OK..

It is alive. The root does not rot.

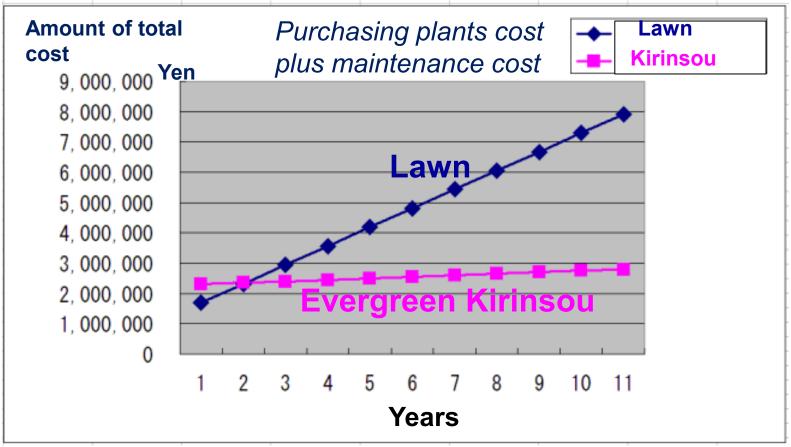
Even if it does not rain for three months, Kirinsou is survivable in Japan.

Feature of Kirinsou-3



Low maintenance

(Only a little water is necessary for planting. Only natural rainfall is enough in Japan. Just a few fertilizer is necessary. Cropping is not required unlike lawn.)



The maintenance expense is very cheap compared with other plants such as lawn. 6

The general problems of greening which Kirinsou bag method solves

(details are to be explained later)



The soil flows out.



The weed invades.



The general problem of greening-1



The soil flows out.





The soil flows out because of the strong wind and the heavy rain.

The general problem of greening-2



The weed invades.





The weed cannot be prevented from invading. The maintenance fee increases.

The general problem of greening-3





Gardening construction by specialists is necessary. The amateur cannot construct it.

The problems of greening are solved by Kirinsou.



- The soil erosion is prevented.
- The weed is prevented from invading.
- 3

The gardening construction is easy.

Solution-1

Evergreen Kirinsou bag method



The soil erosion is prevented.



The weed is prevented from invading.



This special bag for Kirinsou is Patented item in Japan.

Solution-2

Evergreen Kirinsou bag method



The gardening construction is easy.



It is possible to set it up easily.

The junior high school students can also do it very easily.

Advantages of Greening by Kirinsou

1. Expansion of green areas against desert

- Kirinsou can survive even in dry environments, it can expand green areas -

2. Moderation of global warming

- Contribute to moderation of global warming by CO2 reduction -

3. Keep cooling buildings and houses in summer and keep warming in winter

- Kirinsou moderates variation of temperature -

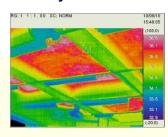
4. Aesthetic Effects

- Create aesthetic scenes and relax people -

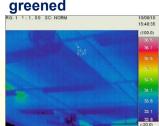
5. Protection of buildings and houses

- Prevent deterioration of buildings and houses caused by acid rain, ultraviolet light, variation of temperature, etc,.

Temperature of the Ordinary room



Temperature of the Room with a roof greened

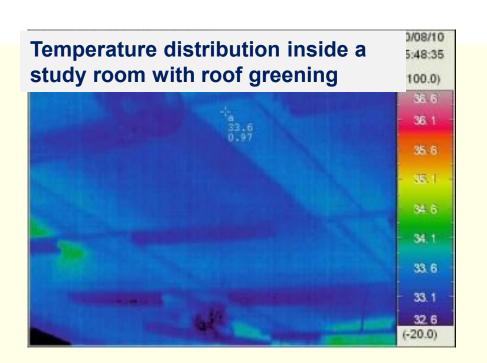


Roof greened makes comfortable living and/or working spaces.





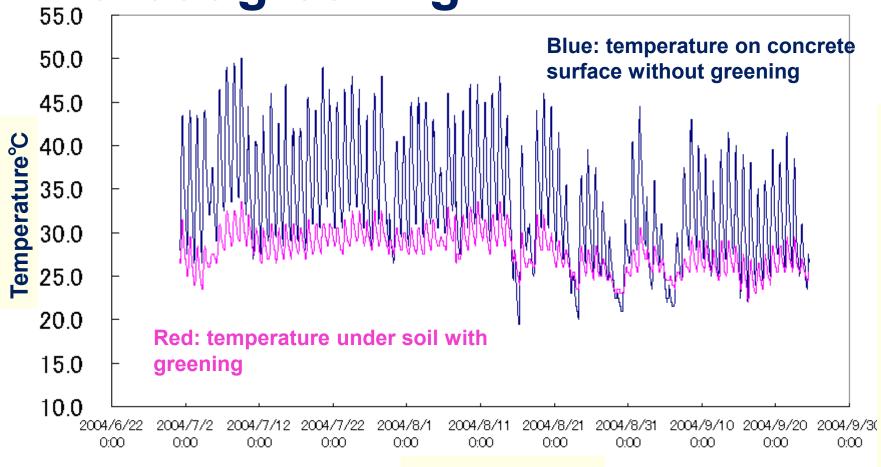
Effects of roof greening with Kirinsou to temperature inside study room(Maebashi No4. junior high school)



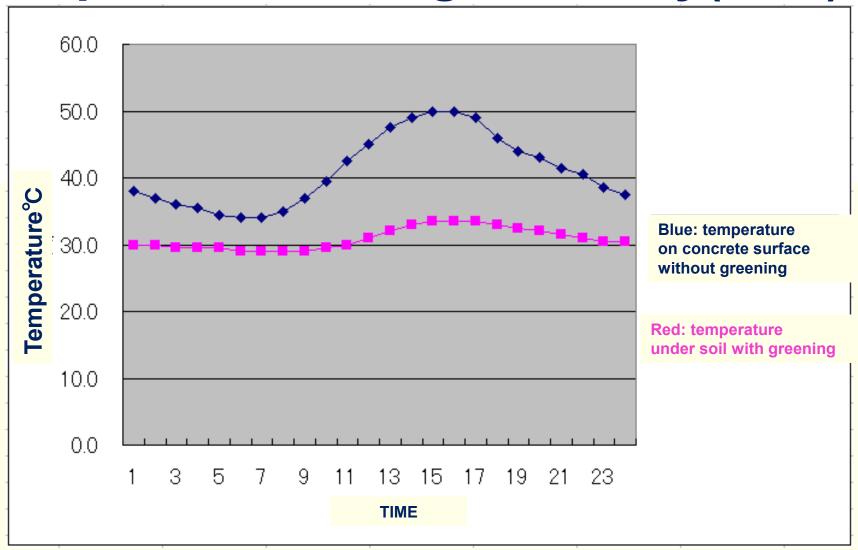


Roof greening cooled a study room.

Temperatures in summer season on concrete surface with and without greening

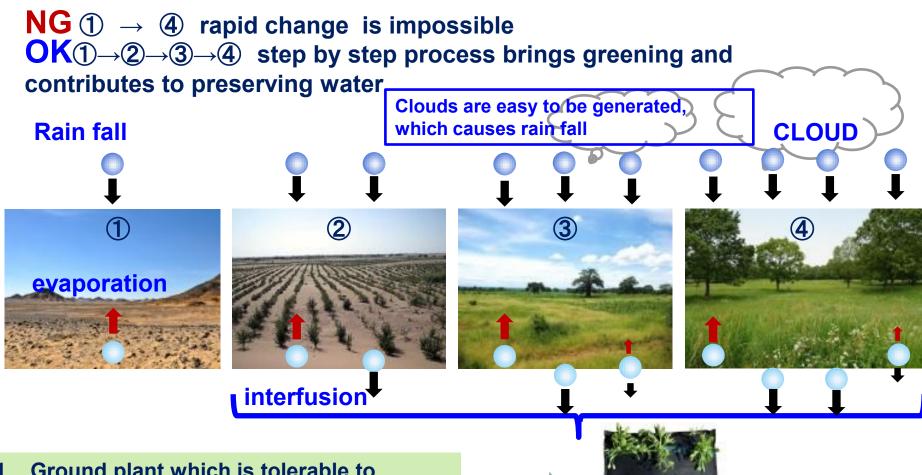


Temperature change in a day(7/20)



By greening, change of temperature is to be mild, which contributes to reduction of cooling/warming expenses.

Process of greening dry areas



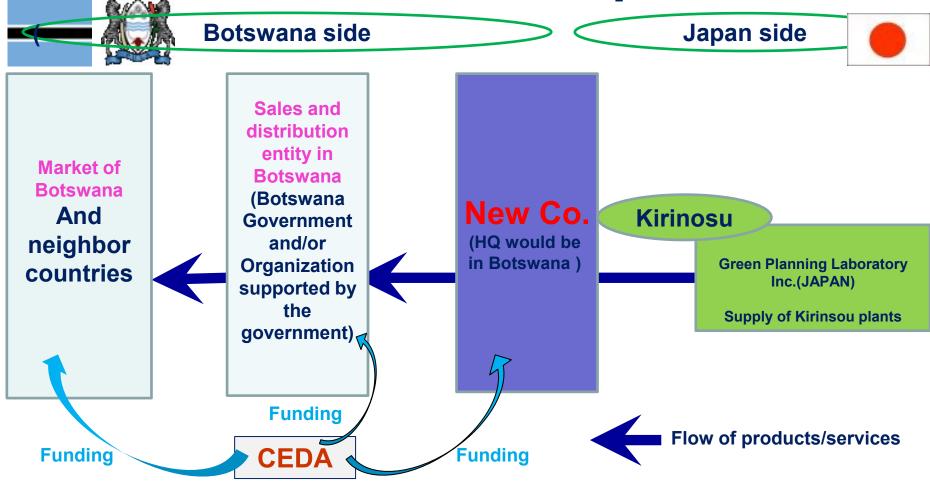
- 1. Ground plant which is tolerable to Dryness and is kept green is necessary.
- 2. Some method which sand does not move is necessary
- 3. Some method to reduce water evaporatio is necessary.



KIRINSOU Bag suits those requirements perfectly.

18

Proposal of a new company which links Botswana and Japan



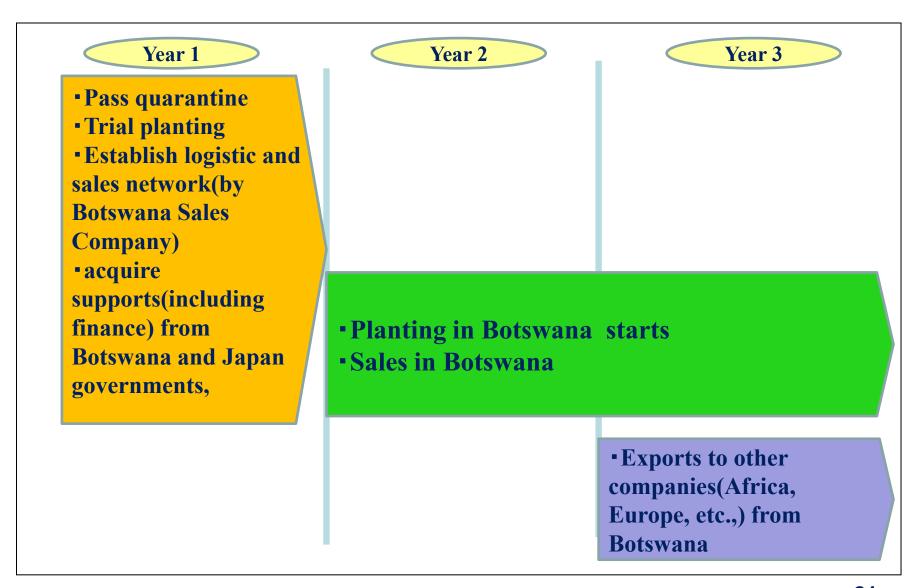
Involvement of Botswana government is indispensable anyhow.

Introduction of Kirinsou to Botswana



Also possible production in Botswana.

Kirinsou projects schedule



Patent matters

Kirinsou has Japanese Patent (2007)

 Needs patent registration in Botswana and also in other countries.





Rooftop gardening





Slanted roof greening





Greening on wall





Greening in dam





Greening of freeway





Greening of roads

Nuclear plant





Greening of concrete slopes

Photovoltaic power plant



The power generation efficiency goes up, and prevention of weed invasion.

View in the future (Worldwide)

Export to UAE, Oman and other countries is under planning.

Proving test Cooperation with university



Urban area
Greening of
facilities



Suburbs area Anti-Desertification measures

View in the future (Worldwide)





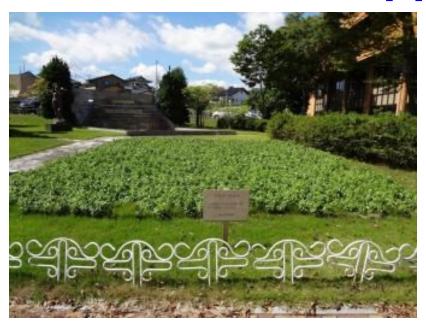
Expanding applied area (Japan)







Tohoku revival support project started





Expanding applied area (Japan)



Hometown of Kirinsou - Tottori Farm



It is 75 minutes by airplane from Tokyo.

Taito City Office (Tokyo) Sample garden.



Many kinds of plants including Kirinsou are exhibited.

Kirinsou in Exhibition.



Integrated exhibition of new city planning that the next generation energy brings

END



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