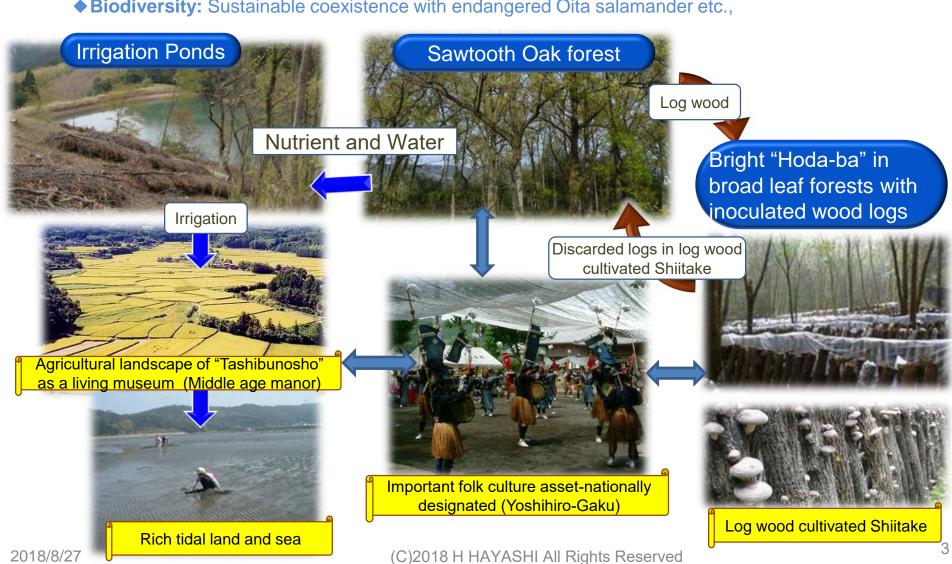


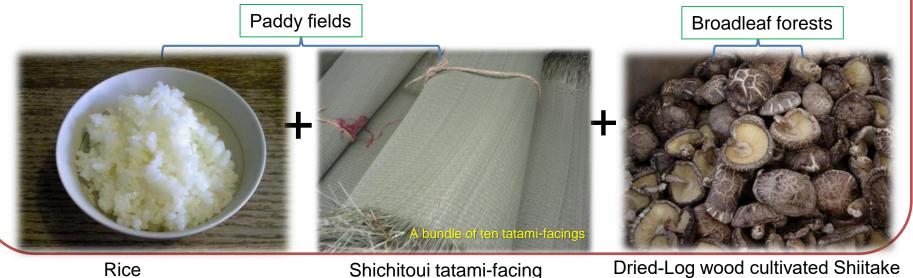
Characteristics of Kunisaki GIAHS

- ◆ Geographical: Round peninsula with highly porous volcanic soil and steep rivers
- ◆ Climatic: Warm temperate and low rainfall
- ◆ Landscape: Beautiful Paddy fields, Irrigation ponds, Sawtooth Oak forests, Sea coasts.
- ◆ Products: Shiitake mushroom, Shichitoui, Rice etc.
- ◆ Historical: Fusing Shinto and Buddhist philosophies flourished
- ◆ Biodiversity: Sustainable coexistence with endangered Oita salamander etc.,



Rich crop diversification in Kunisaki Peninsula-Usa area

As large scale paddy agriculture was not developed in this region, it became necessary to cultivate commodities that complemented wetland rice.



Shichitoui Industry Which Remains Only Kunisaki Peninsula in Japan Features ;

- 1: Dried Shichitoui (Cyperus malaccensis Lam.) for durable weaving tatami facing
- 2: Indigenous farming practice only in Kunisaki and brought large profits in a small paddy field
- 3: Accumulated know-how for Shichitoui industry in Oita prefecture

History;

- 1: Shichitoui cultivation in Oita began about 350 years ago after introduced from Tokara Islands
- 2: In 1957, 5.5 million tatami-facings were produced in 1505 ha paddy field in Oita.
- 3: Several thousands tatami-facings were produced in 1 ha of paddy field at Kunisaki in 2009
- 4: Establishment of 'Kunisaki Shichitoui' Promotion Association for the revival of the industry in 2010
- 5: Kunisaki GIAHS designation in 2013
- 6: Geographical indications(GI) designation for Kunisaki Shichitoui tatami-facing in 2016

4

Two types of tatami-facing:

made from Shichitoui

(Cyperus malaccensis Lam., Cyperaceae)



made from Rush grass

(Juncus effusus L. var. decipens, Juncaceae)

As tatami-facing:

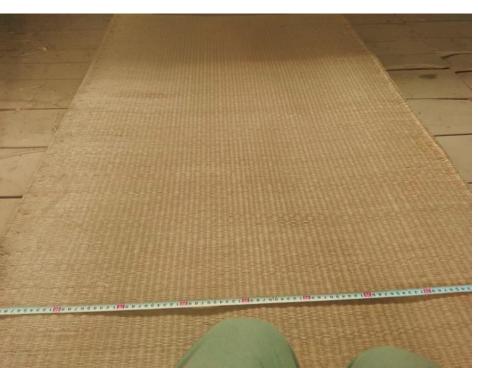
- Durable and resistant to fire
- Used in dinning room, working room
 (special tea room and once widely known as a Judo tatami)
- At present :
 - Specially known as "Ryukyu" and almost have been forgotten
 - Produced only in Kunisaki Peninsula, Oita

- Delicate and beautiful
- Used in guest room
- At present:
 - Commonly used and produced mostly in Kumamoto prefecture

As fiber crop plant:

- Tropical and/or subtropical short-day plant with thicker triangular stem
- Transplant in May and harvest in August

- Temperate long-day plant with circular stem
- Transplant in November and harvest in next June



This old tatami mat was laid in my dining room in the 1960's. The tatami-facing was made from Shichitoui produced in my family. These tatami mats closely related to daily life and were cheaper than that with the tatamifacing made from rush grass.

However, even my family wanted prestigious tatami with the tatami-facing made from Rush grass.

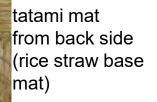
Changes in Japanese lifestyle and way of thinking caused a reduction in Shichitoui tatami-facing consumption.



tatami mat from above (tatami-facing)



tatami mat from side



Too severe labor for Shichitoui tatami-facing industry at around 1960's

(Reproduction photo by H. Hayashi)

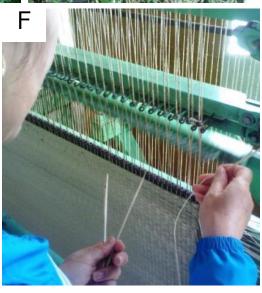












A: Transplant into paddy field in May.

C: Harvest with a sickle.

D: Slice stem vertically into two parts through thin wire by hand.

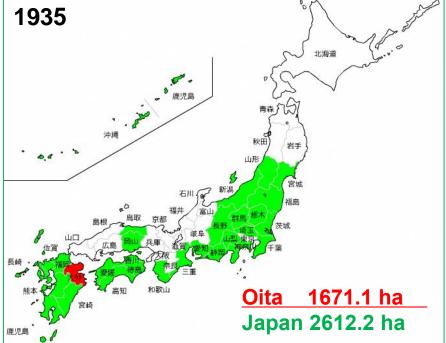
(at present, mechanized)

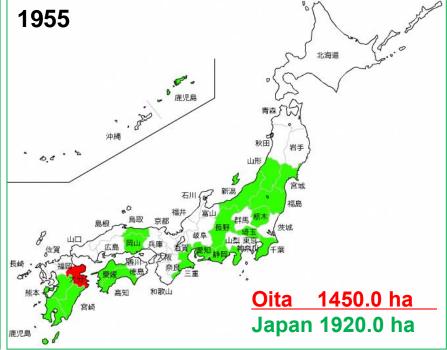
E: Dehydrate under sunshine (at present, mechanized)

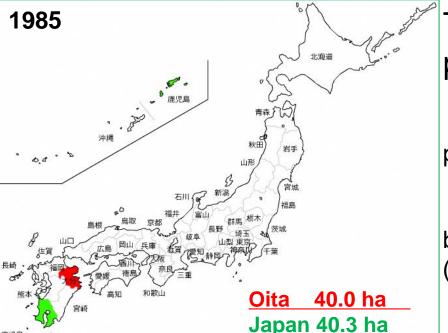
F: Weave Tatami facing using using semi-automated machine

(at present, fully automated machine under development)

The inability to obtain the price suitable for too severe labor caused a drastic decrease in the production of Shichitoui tatami-facing.







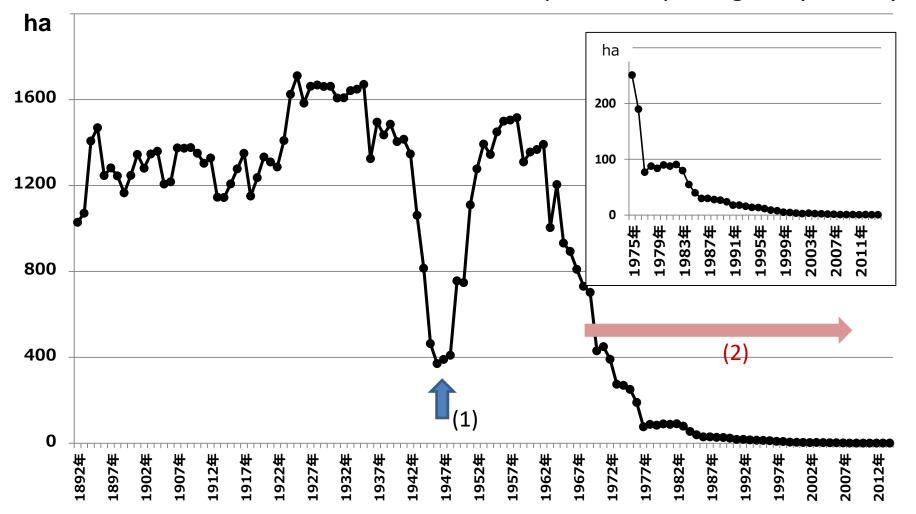
Transition of Shichitoui cultivated place in Japan

Shichitoui has been cultivated only in Oita prefecture since 1993⁽¹⁾.

Figures were rewritten by H. HAYASHI based on the data in "Bungo no Shichitoui" (1986) by Tetsuo MAEDA

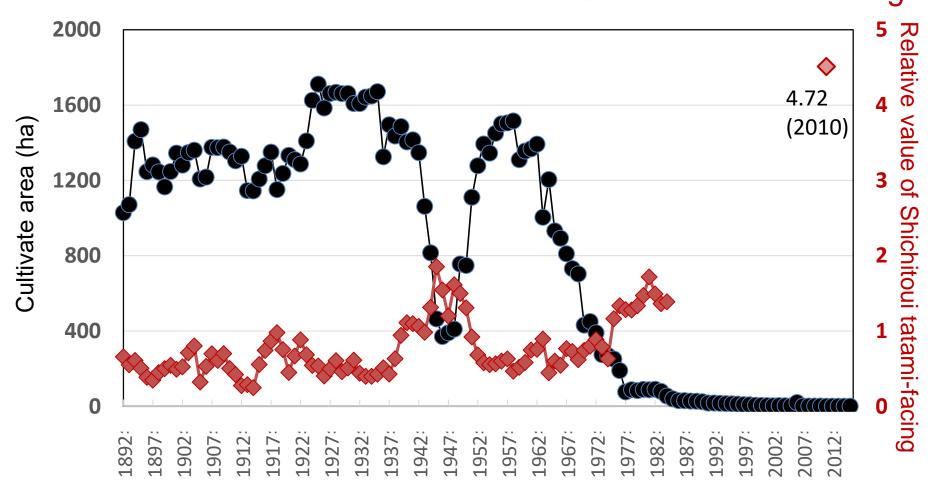
(1) http://www.library.maff.go.jp/archive/Viewer/Index/001475375_0001

Change in Shichitoui cultivated area in Oita prefecture (H. Hayashi Hiryoukagaku (2014))



- (1) During and just after 2nd World War, rice production was highly recommended in paddy field not Shichitoui.
- (2) Severe labor of the farmers was not rewarded, because a rapid decline in tatami demand due to westernization of Japanese lifestyle decreased the relative price of a tatami-facing.

Change in Shichitoui cultivated area in Oita prefecture⁽¹⁾ and Relative value of Shichitoui tatami facing⁽²⁾



(1)Hiroaki HAYASHI Hiryoukagaku (2014). (2)Relative value of Shichitoui was calculated by **dividing the of 10 sheets of Shichitoui tatami-facing by the price of 60 kg of rice**. Data 1892-1984 was from "Bungo no Shichitoui" (1986) by Tetsuo MAEDA. Data of 2010 rice price was in http://www.maff.go.jp/j/seisan/keikaku/soukatu/pdf/22kakaku-all.pdf. Shichitoui tatami-facing price of 2010 was obtained by interviewing a wholesaler by Hiroaki HAYASHI.

Action plan

GIAHS: Kunisaki Peninsula Usa integrated forestry, agriculture and fisheries system



To pass traditional agriculture down to future generations



Regional revitalization by using GIAHS brand



No.1 Shiitake farmer (Kunisaki City)



Inspection tour from Korea



Revival and restoration of traditional Shichitoui industry (Kitsuki City)









Posterity education in Kunisaki Peninsula Usa area

a: Teaching materials for primary school children. b: Cultivation experience in elementary school(photo from Kunisaki City Homepage). c: Presentation at the junior high school Summit.

d: Direct dialogue of a shichitoui-farmer and high school students.

Recognition of the value of Shichitoui tatami-facing



Japan Country Living p.62by Amy Sylvester Katoh photographs by Shin Kimura
1993 Tuttle Publishing



Fukagawa Edo
Museum(Tokyo)

(Tatami in the house of ordinary people in Edo period)



Shichitoui tatami-facing has been used generally for a long time, and recently it has also been evaluated from foreign countries

Recognition of symbiotic relationship between Shichitoui industry and nature



Craftswoman for Shichitoui, Ms. C. Iwakiri, has restored the traditional drying process for sliced Shichitoui stems on the beach, so called "Hamaboshi".



A former Shichitoui farmer came to advise on the way of "Hamaboshi".



Children experienced this traditional work and enjoyed the beautiful beach.

Recognize that sliced Shichitoui drying operation kept the local coastline environment clean.

A former Shichitoui farmer did not cultivated Shichitoui in order to maintain a clean beach. Consequently, they help nature.

Development of human resources

New entrants



2014.6 Kunisaki City

Satoshi and Miyuki Fuchino who started Shichitoui farming by receiving veteran farmer (Tadashi and Emi Matsubara) support. New information available in https://agri.mynavi.jp/2018_06_25_29993/

Training program

of the traditional industry engineer for Shichitoui tatami industry



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New proposals for customers

In Japanese Modern Room photo form http://shitto.org/

A Bench in the Modern Art of Museum

OpAm Oita Prefectural Art Museum photo by H. Hayashi



Branding using Kunisaki GIAHS +GI

Severe quality standards of GIAHS Shichitoui products

(別紙3)

シチトウイ加工品の品質基準

1. Shichitoui tatami-facing

- ・国東市産で、以下の基準を満たしたシチトウイを原料として使用したもの。
 - ①長さ140cmで、茎の太さが中庸でバラツキがなく、茎の先端と根元の太さが揃っているもの。 ②鮮やかな銀青白色の色沢があるもので、適当な弾力があり、製織した畳表が均質となるもの。
- ・畳表に以下の不具合がないもの。
 - い切れ、経糸切れ、間不足
- ・くにさき七島藺振興会の指導に基づいた製造を行い、品質検査に合格したもの。

2. Shichitoui Crafts

- ・国果巾座のンナトワイを原料として使用し、厚み、幅、長さが均等の三つ編みにより製造されたもの。
- ・くにさき七島藺振興会が認定した「くにさき七島藺工芸士」の資格を持ったものが県内で製造したもの。
- ・くにさき七島藺振興会が認定した円座、角座及びラグマットで、以下の不具合がないもの。 円座:ゆがみ、凸凹がない円形

角座及びラグマット:ゆがみ、凸凹がない正方形

・くにさき七島藺振興会の指導に基づいた製造を行い、品質検査に合格したもの。



http://www.kunisaki-usagiahs.com/about_giahs/c ertification.html

http://www.maff.go .jp/j/shokusan/gi_a ct/register/22.html

	名 称	規 格、仕 様 及 び 特 徴
1		直径60~61cm。国東市産のシチトウイを三つ編みにし、丸く編んだもの。
2	円座(小)一枚重ね	直径40~41cm。国東市産のシチトウイを三つ編みにし、丸く編んだもの。
3	円座(小)二枚重ね	直径40~41cm。国東市産のシチトウイを三つ編みにし、丸く編んだものを2枚重ねたもの。
4	角座(大)一枚重ね	40~41cm四方。国東市産のシチトウイを三つ編みにし、正方形に編んだもの。
5	ラグマット	ラグピース(国東市産のシチトウイを三つ編みにし、18cm、または、23cm四方に編んだもの)を縫い合わせたもの。 (縫い合わせ枚数は、お客様のオーダーに応じる。)



円座(小)一枚重ね



角座



ラグマット(36t°-ス)

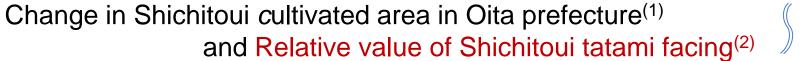
Improvement of recognition of GIAHS is still essential!!

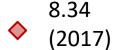
Awareness of GIAHS in Oita prefecture $47.5\%(2015.3)\rightarrow63.8\%(2017.3)$



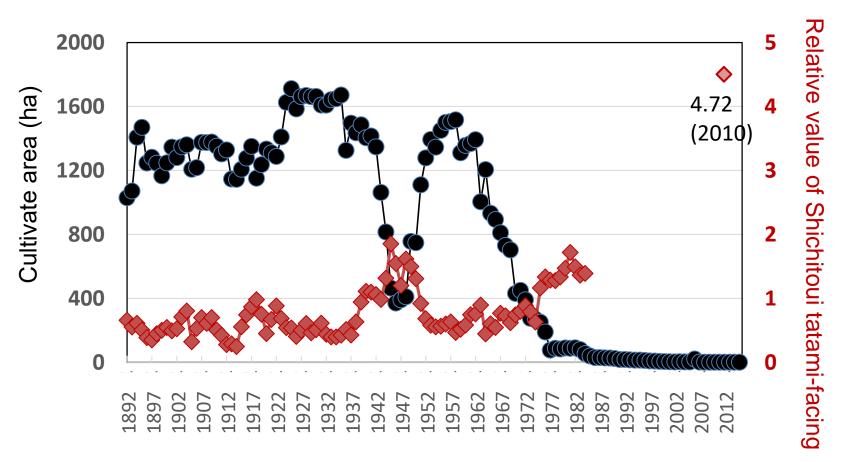
Top news(2018.7.24) in "The Japan Agricultural News" saying-----

1:Shichitoui Industry, Fusion of Tradition and Innovation 2:Shichitoui, from Poverty Grass to Treasure Grass





20



(1)Hiroaki HAYASHI Hiryoukagaku (2014). (2)Relative value of Shichitoui was calculated by dividing the price of 10 sheets of Shichitoui tatami-facing by the price of 60 kg of rice. Data 1892-1984 was from "Bungo no Shichitoui" (1986) by Tetsuo MAEDA. Data of 2010 rice price was in

http://www.maff.go.jp/j/seisan/keikaku/soukatu/pdf/22kakaku-all.pdf. Data of 2017 rice price was in http://www.maff.go.jp/j/press/seisaku_tokatu/kikaku/attach/pdf/180814-1.pdf. Shichitoui tatami-facing prices of 2010 and 2017 were obtained by interviewing a wholesaler by Hiroaki HAYASHI.