

COLD CHAIN in Japan

as social infrastructure





Nichirei Logistics Group Inc. Overseas Business Development Division

Presenter: Motoyuki Hazu, Executive Officer

Nichirei Corporation Profile



Nichirei Corporation
-Holding Company-









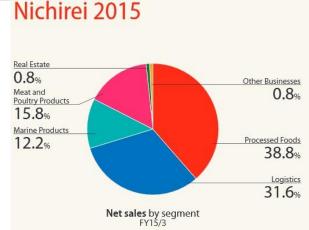
■ Overview of Nichirei Group

Paid in Capital: \$252 Million

Net Sales: \$4.53Billion

Operating Profit: \$147 Million

(FY2014) **※**@JPY 120.27/\$
No. of Employee : 13,551



Cold Chain's Social Contribution



- Stabilizing Food Supply
- 2. Reduction of Food Loss
- 3. Promotion of new Food Processing Businesses
- Price stabilization with Gap Filling between supply and demand



New issues have been rising

- Food Safety issues
- Global Environment issues (We could reduce Food Loss but we increase electricity consumption a lot)

1965 Cold Chain Recommendation in Japan

Modernization of food distribution system for improving dietary life

Aim: Create Japanese Healthy Dietary life

Report: Recommendation for

Cold Chain Improvements

Main Recommendations



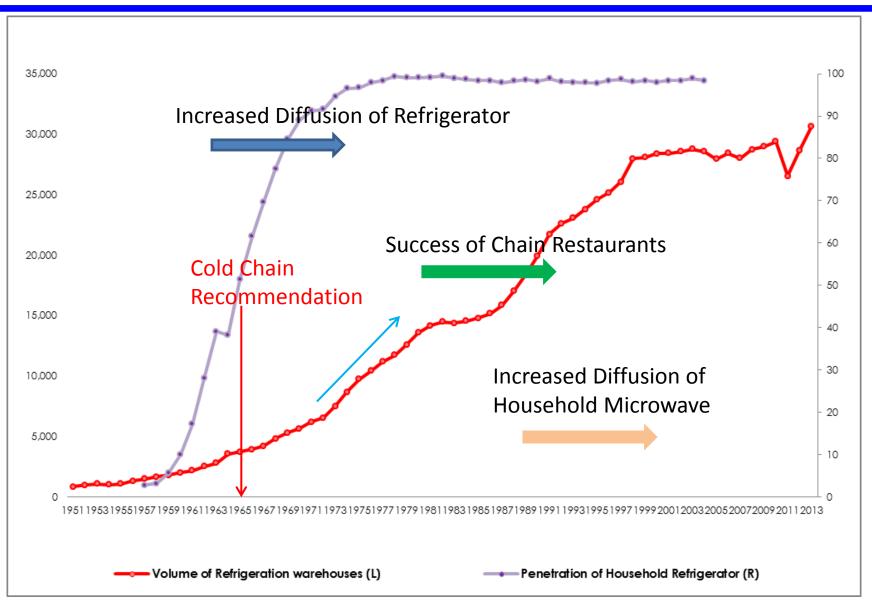
- 1. Construction of cold chain
- 2. National food grades/standard and inspection system
- 3. Information system on food distribution
- 4. Processing & transfer center system
- 5. R & D of food distribution



Official Assistances for Cold Chain Improvement

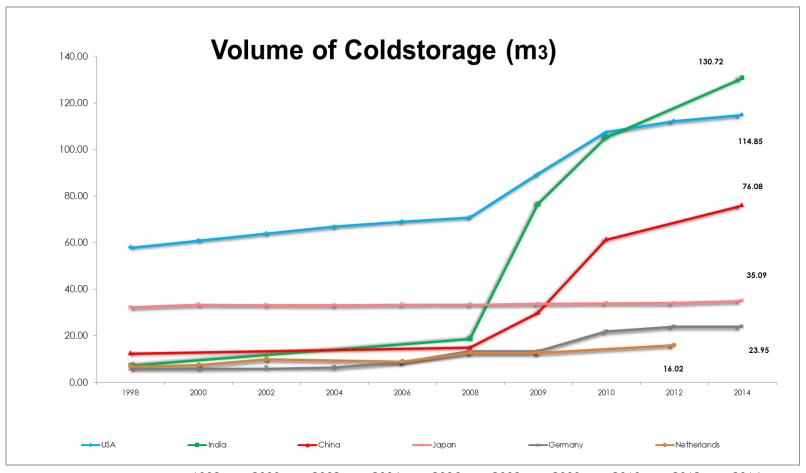
Coldstore Development in Japan





Coldstore Capacity trend in major Countries

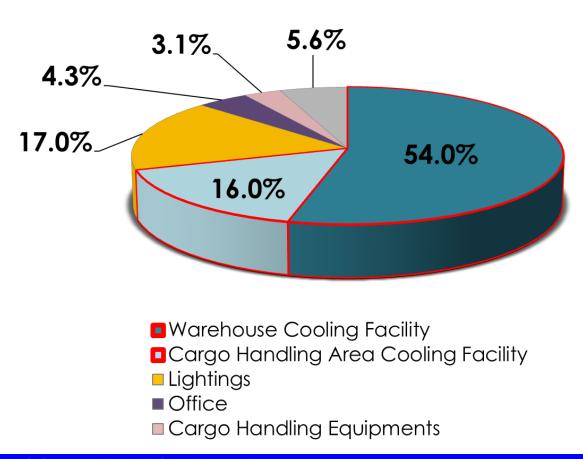
NICHIREI LOGISTICS GROUP INC.



Capacity per population

	1998	2000	2002	2004	2006	2008	2009	2010	2012	2014
USA	0.210	0.215	0.222	0.228	0.231	0.233	0.291	0.347	0.357	0.360
India	0.007					0.016	0.064	0.087		0.103
China	0.010					0.011	0.023	0.046		0.056
Japan	0.256	0.263	0.261	0.259	0.261	0.261	0.263	0.266	0.267	0.276
Germany	0.073	0.073	0.078	0.079	0.106	0.163	0.164	0.267	0.298	0.296
Netherlands	0.446	0.471	0.619		0.551	0.766	0.762		0.956	

Annual Electricity Consumption of Nichirei Logistics Group in Japan



Our Energy Save Work



Innovation:

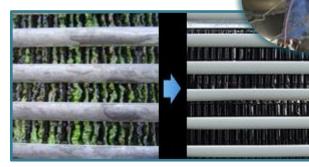
ηMax Refrigeration System

(20% Energy saving cooling engine)

Proper door Closing



Cleaning



Overhaul Maintenance

Sprinkle



Continuous Saving
Annually around 5%
for more than 5 Years

Water



- Expiration of Sales Limitation Date
- Damaged Package, etc.







- Nichirei Foods aims to reduce MOTTAINAI



 Cooperation with Food Bank, Second Harvest Japan

- Nichirei Flesh
- Development of New Eatable Fishes
- Utilising uneatable Fish Parts
 - Changing Waste to New Resources
- Nichirei Logistics Group
- High Frequency Wave Defroster





Quick Defrost with very little drip



High Quality Meat supply from Frozen Stock

COLD CHAIN in Japan



Thank You for Your Attention!