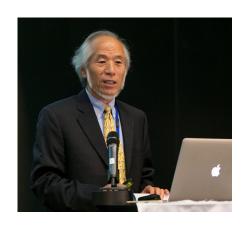
# Friede Gard Prize 2025 Award Lecture Online (40 minutes)

# Public Money System A Paradigm Shift in Economics as a Science



by Dr. Kaoru Yamaguchi Japan Futures Research Center

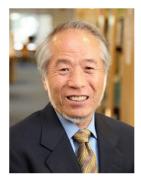
> Saturday, October 18, 2025 9 -1030 am (German time) 4 - 530 pm (Japan time)





Aktuelle Seite: Startseite / The Prizewinners / Friede-Gard-Prize 2025 - Kaoru Yamaguchi

# Friede-Gard-Prize 2025 - Kaoru Yamaguchi



Professor Kaoru Yamaguchi, PhD, was awarded the prestigious Friede-Gard-Prize for Sustainable Economics 2025 during the World Expo Osaka. The ceremonial handover of the prize certificate by Professor Klaus Helling from Umwelt-Campus Birkenfeld took place at a small ceremony in the German pavillon.

Professor Yamaguchi was honored for his outstanding scientific contributions to a sustainable economics, especially for his modeling of an alternative monetary system, the so--called Public Money system. He is internationally renowned for his application of the System Dynamics approach towards various macroeconomic theories and their analysis with regard to stability and crisis resilience.

## How Public Money is Born (part 1)

1. (1977-1985) Unifying Battles of Ideas in Economics

Striving

2. (1986-2002) Futures Studies, Sustainability and System Dynamics

**Futures Studies** 

3. (2003-2009) Accounting System Dynamics and Macroeconomic Modeling

**ASD Macro Modeling** 

4. (2010-2014) Modeling American Monetary Act and the Birth of Public Money followed by the Academic Assassination

**Public Money** 

# Why We Need A Paradigm Shift in Economics (part 2)

- 5. (2015-) Academic Resurrection and Findings of "Money as Debt"
- 6. (2021-) Paradigm Shift in Economics as a Science (Debt Money -> Public Money)
- 7. (2025-) Public Money and MuRatopia Economy

Paradigm Shift

#### 1. (1977-1985) Unifying Battles of Ideas in Economics



**Adam Smith** The Wealth of Nations

God's Invisible Hand



Nobuo Okishio



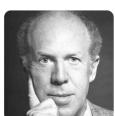
Berkeley Days

Japan Days



Karl Marx Das Capital Marxian Economics

1917: Soviet Union







**Neoclassical Economics** 

Leon Walras Elements of Pure Economics

Gerald Debreu Kenneth Arrow Nobel Prize 1983 Nobel Prize 1972



John M. Keynes The General Theory of Employment, Interest, and Money Keynesian Economics



George Akerlof Nobel Prize 2001



George Akerlof Janet Yellen

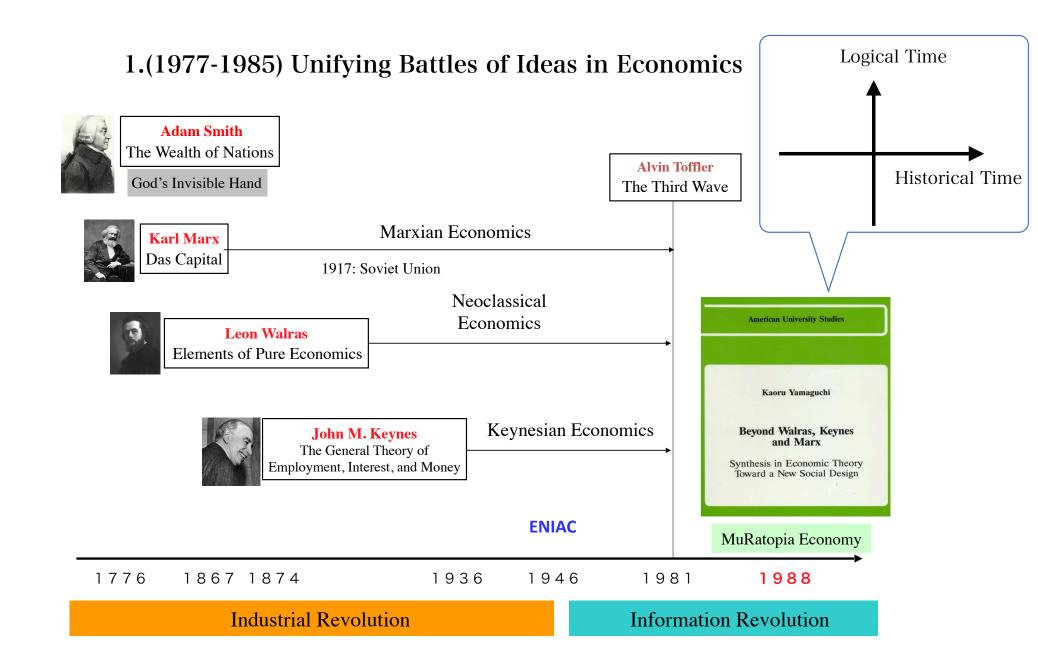
1776 1867 1874 1936

1946

1981

**Industrial Revolution** 

**Information Revolution** 



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(Debt Money —> Public Money)

Paradigm Shift

#### 2. (1986-2002) Futures Studies, Sustainability and System Dynamics

- Sustainability and MuRatopia Economy, Chap 5 (with mathematical analysis)

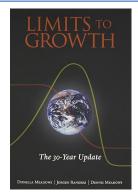
- System Dynamics modeling

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Prof. Jay Forrester, MIT World Model by the Club of Rome



2004

2004

2013

SUSTAINABLE GLOBAL COMMUNITIES

INFORMATION AGE
Visions from Futures Studies

Edited by Kaoru Yamaguchi

1972

Jorgen Randers Friede-Gard Prize 2023

- Modeling long-term sustainability, Chap 4 sustainability with SD modeling:

- Physical Reproducibility
- Social Reproducibility
- Ecological Reproducibility

Handbook of Sustainable
Development Planning
Studies in Modelling and
Decision Support
Edited by M.A. Quaddus • M.A.B. Siddique
SECOND EDITION

Sustainability Modeling Guide

1997



Japan Futures Research Center

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Public Money

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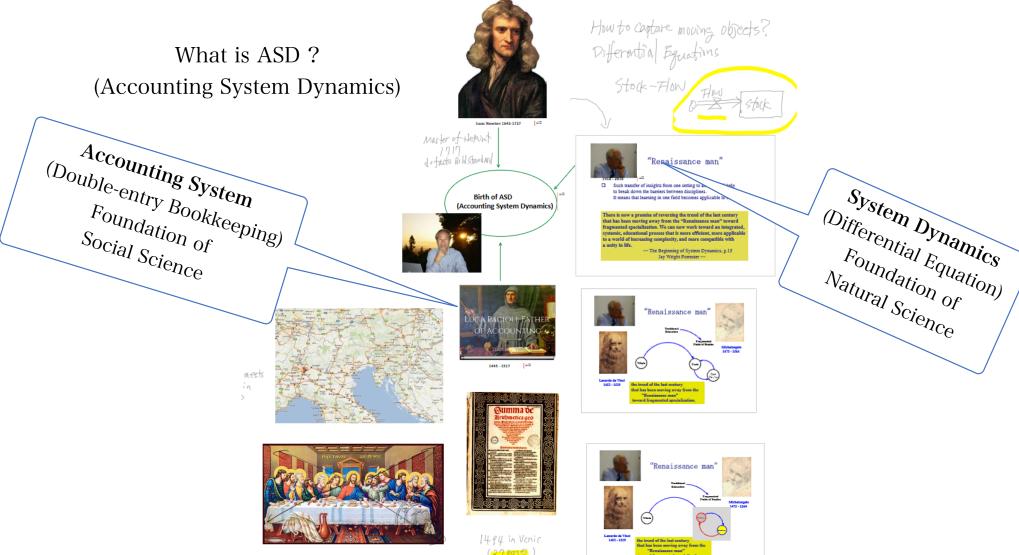
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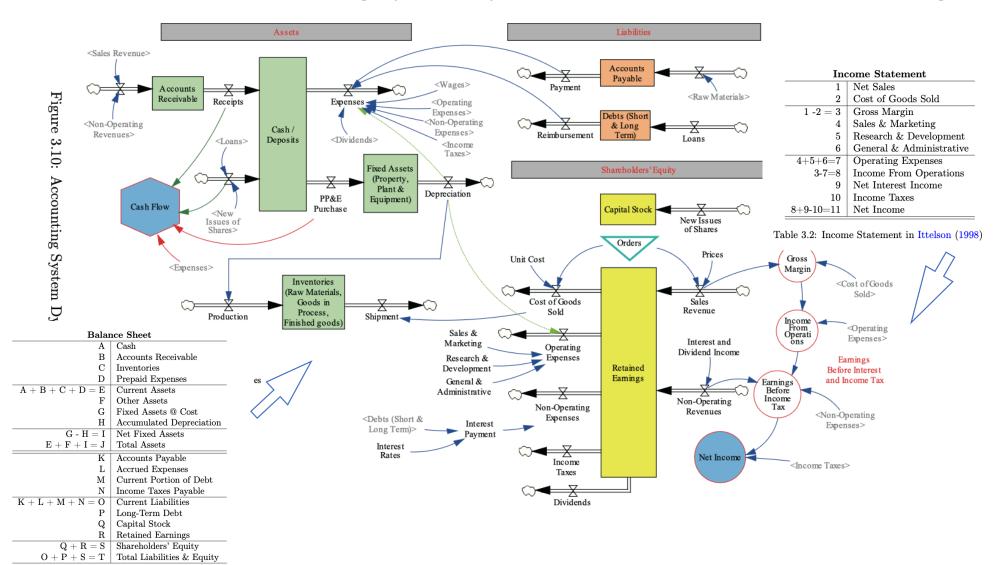


Table 3.1: Balance Sheet in Ittelson (1998)

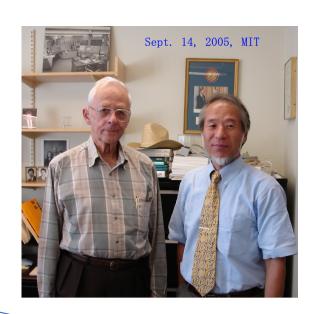
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# **ASD Macroeconomic Modeling Series**

- Principle of Accounting System Dynamics

   Modeling Corporate Financial Statements New York City, July 20-24, 2003
- ② Money Supply and Creation of Deposits (SD modeling 1) University of Oxford, England, July 25 - 29, 2004
- 3 Aggregate Demand Equilibria and Price Flexibility (SD modeling 2) Boston, USA, July 17-21, 2005 -> Visit Prof. Jay Forrester (Sept. 14)
- 4 Integration of Real and Monetary Sector with Labor Market (SD modeling 3) Nijmegen, The Netherlands, July 23 - 27, 2006
- Salance of Payments and Foreign Exchange Dynamics (SD modeling 4) Boston, USA, July 29 – August 2, 2007
- Open Macroeconomies as a Closed Economic System (SD modeling 5) Athens, Greece, July 20 – July 24, 2008

This modeling series of 5 yeas is done in 2008



Prof. Jay Forrester confirmed my macro models are different from his National Models