

Back to the Future, Again?

ONE World Currency
One world currency for trade
Supercomputing, Manufacturing, and Farming

Mohammad Afzal Hossain, Lee Hood Capps, and Bonnie Sue Coffey

May 24, 2023



A World in Crisis: ONE World

- Globalization is unstoppable
 - Fragments are visible - at a cost
- The Gravity Model of the USA
 - Near, re, friend shoring leaves out good parts of the world
 - Share of crime economy in GDP is an issue in left out countries
 - Creates massive immigration flow towards the USA
- The Dual Center Model
 - Has all of the problems of the gravity model
 - Amorphous crystallization of the world likely
- EU Integration model
 - Three unequal segments - old, new, and candidate
 - Still has all disadvantage of the gravity model

Presentation Outline

- ONE World Currency
 - One world currency and network for trade and payment
 - This is a work-in-progress concept paper
- Wide-scale economic disparities, global dislocation, and large scale exploitation
- What is TWV, why, where, and how
 - Current trade paradigms
 - TWV global facility structures
 - The ONE Paraverse
 - Inclusion, and mobility of capital, labor, and factor
- TWEX, TWEX/NET, and the Victoria ONE Platform Architecture

ONE World Currency

- ONE World Currency
 - One world currency for trade and payment
- Monetary Union Efforts for one currency
 - European Union
 - African Union
- Other currency or trade integration efforts
 - Latin America
 - BRICS
- Islands and landlocked nations
 - Example: Pacific island nations

A Currency Union for Africa?

- Rand zone, CFA Franc zone, Eco (2027)
- Known impediments
- Currency union models - who wins, who loses?
- Is TWEX relevant?
 - TWEX is one currency for trade and payment
 - Promises a natural convergence to ONE World Currency

[Masson & Pattillo 2004] Paul Masson, and Catherine Pattillo, "A Single Currency for Africa", Finance & Development, 9-16, December 2004.

[Debrun 2002] Xavier Debrun, Paul Masson, and Catherine Pattillo, "Monetary Union in West Africa: Who Might Gain, Who Might Lose, and Why?", IMF Working Paper, 2002.

Latin America

What works and what doesn't

- Bilateral Investment Treaties (BIT) are not credible enough - the Latin America example [1]
- Regional Trade Agreements (RTA) are only as good as a region
 - Capital and knowledge pools may be limited in most regions
 - Can't overlook regional political risks
- Keys to drawing FDI are in political and economic stabilities
- There are unstable regions, and most developing nations lack ability to attract FDI

[1] Marta Bengoa, Sanchez-Robles, and Shachmurove, "Back to BITs and Bites: Do Trade and Investment Agreements Promote Foreign Direct Investment within Latin America?", ITFA May 28, 2021

India: no time to waste

Between a rock and a hard place

- Rising population
- Falling jobs (407M/2017, 406M/2019, 402M/2022)
- An ever falling Rupee- one equals to ~\$0.012 today
- Weak investments, complicated business climate, and protectionist trade policies [China has rival as factory floor, WSJ A1 May 10, 2023]
- Weak export oriented growth
- Interstate language barriers and regional competitions
- Majority rural population (~65.4%)
- Weak labor force participation (39.8%) and only 40% of new labor-capable entrants look for jobs
- Weak female labor force (23%)

We think, India has a ~45 year time-window to get things right

India's population surpasses China's, WSJ A1 April 15, 2023



A Global Migration Deluge

A journey-impossible with zero-escape and no-place-to-hide

- Gravity, near shoring, re-shoring, friend-shoring may create massive immigration flow
 - 71M internally displaced people worldwide
 - 75% of them are in ten countries - Syria, Afghanistan, the Democratic Republic of the Congo, Ukraine, Colombia, Ethiopia, Yemen, Nigeria, Somalia and Sudan
- Dual shoring may lead to amorphous crystallization unless basic theory of crystallization is met
- Need for durable solutions to meet the scale of the challenges
- Need cash assistance, livelihood programs, economic security, risk reduction, empowerment of communities

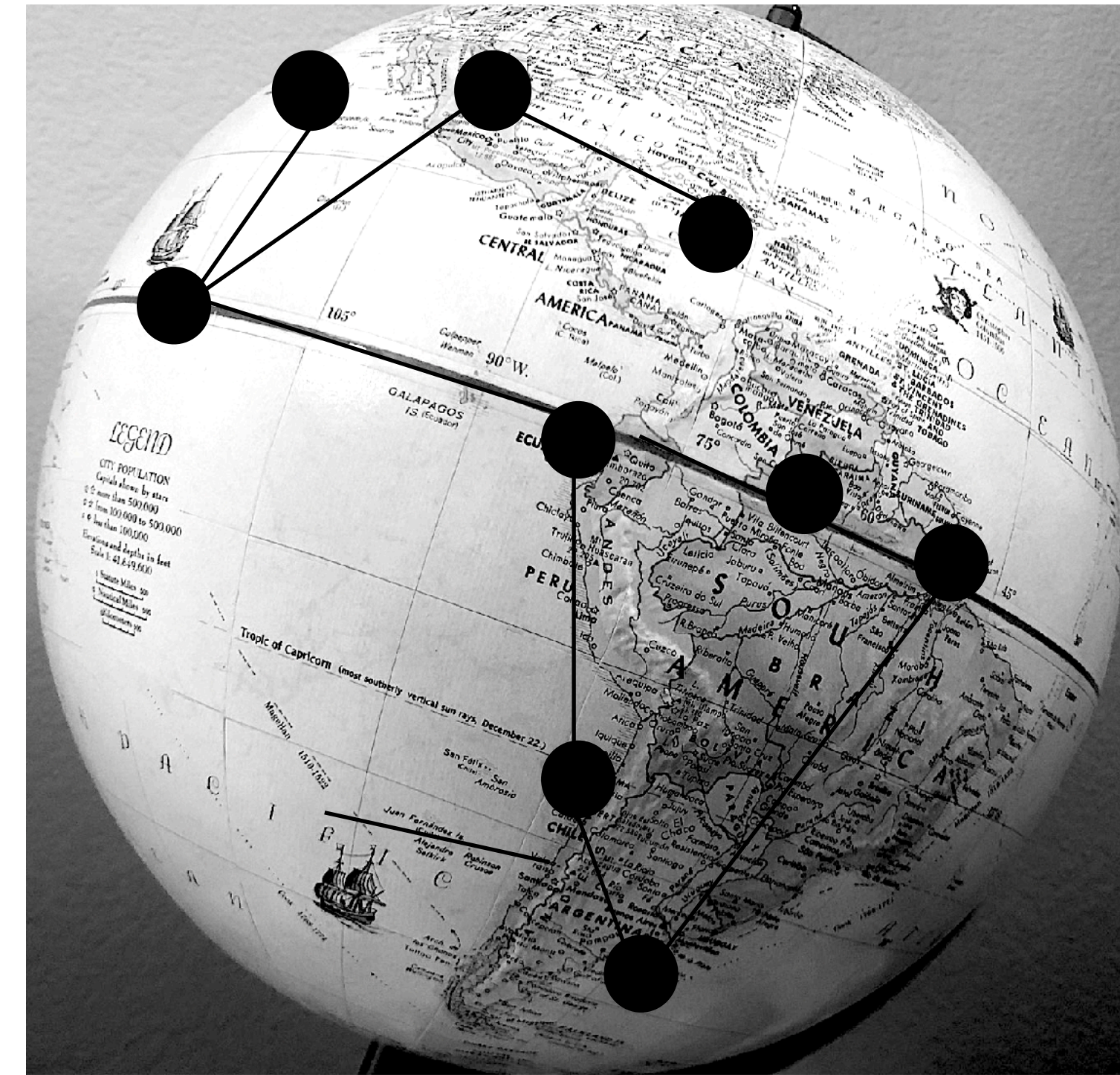
[1] Homeland Security Newswire, May 11, 2023
[2] The Internal Displacement Monitoring Center -
Global Report on Internal Displacement 2023

S. Perez, and A. Caldwell, "Record Numbers of Migrants Are Dying at U.S.-Mexico Border", WSJ A1-03-18-2023

Needs education, skills, jobs - in place capital, factors, and entrepreneurs

TWV is a Connected Trade Infrastructure

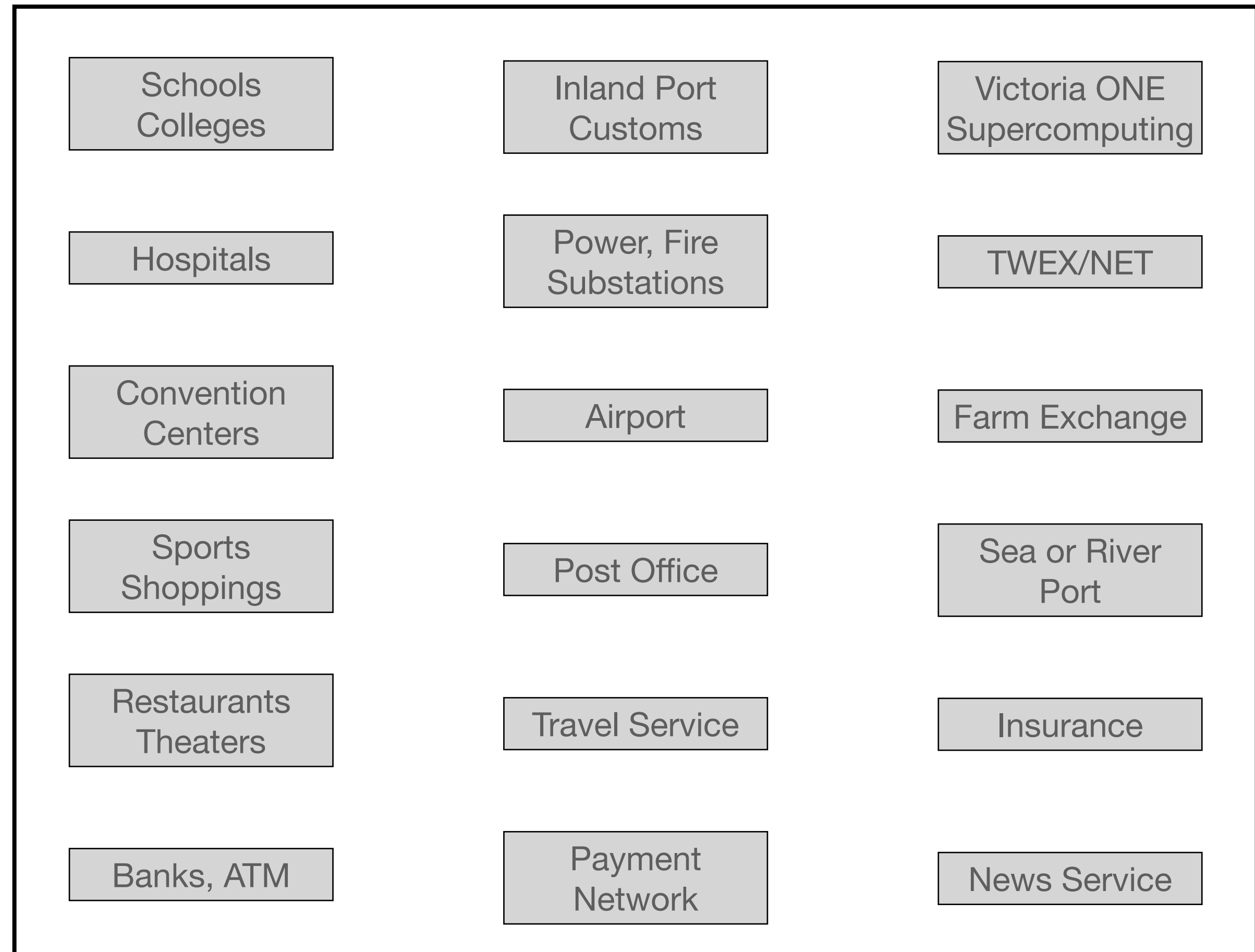
- A connected network of business and manufacturing zones working in unison
- Globally uniform site structures with inland ports, customs, integrated logistics
- One world currency for trade and payment, and the transaction network
- A globally spanning supercomputing data-centers hosts TWEX and TWEX/NET
- Benefits from global competency matrix
- Scalability at minimal cost



[1] Mohammad Afzal Hossain, "Aiding transcontinental manufacturing, trade", Financial Express, Dhaka, June 2, 2018

A Globally Uniform Site Structure

- A fast-food restaurant chain as an example



TWV Dholera



Nanova Corporation

Proprietary & Confidential

All Rights Reserved

TWW Mithamain



TWV Madison



TWV Warrenton



Nanova Corporation

Proprietary & Confidential

All Rights Reserved

TWV Nachole: an overview

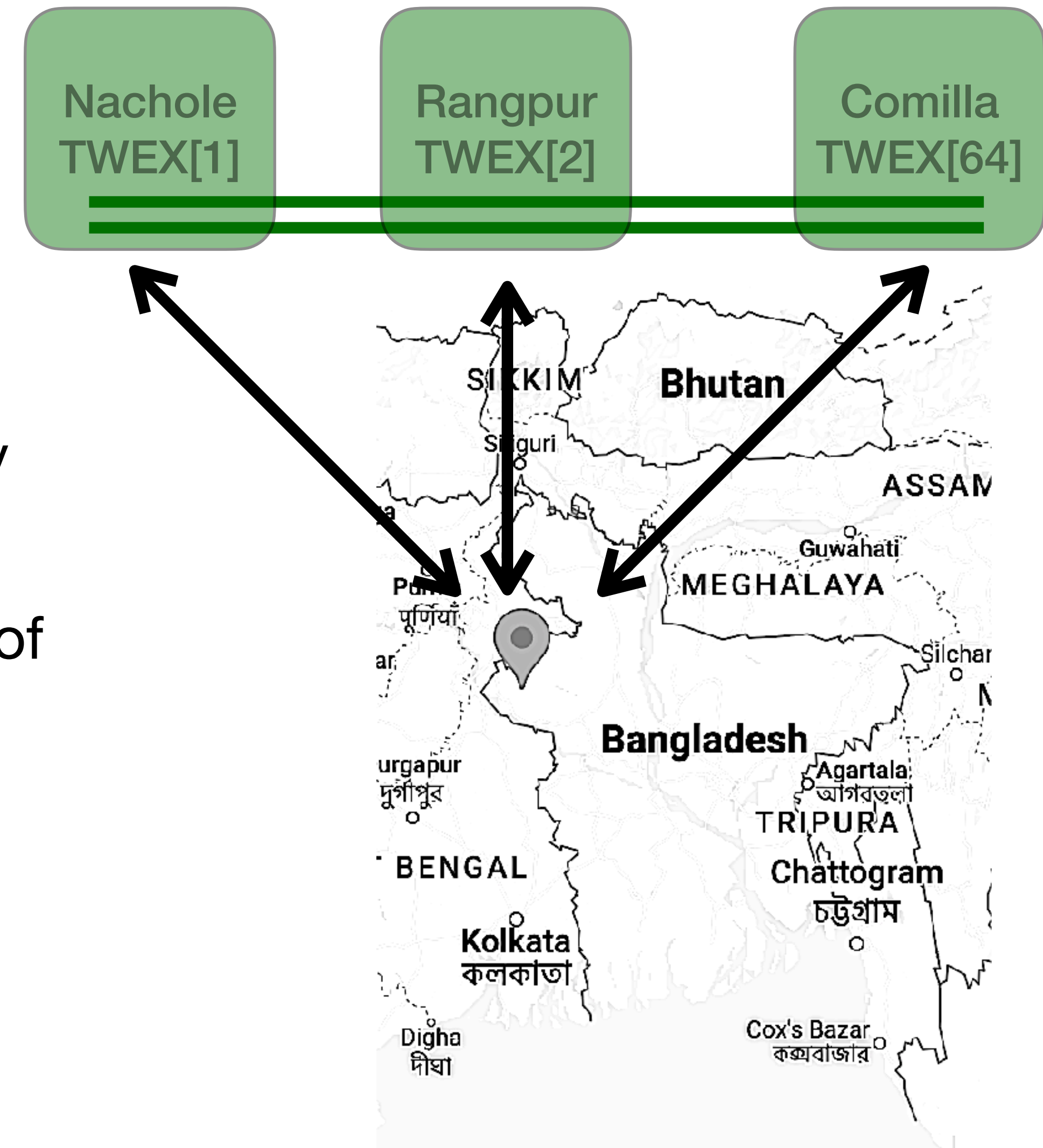
- A well defined subdistrict
 - Functioning local government
 - Land management, borders defined
 - Census data
 - Identity services
- Population 146,000
- Area 284 SQ KM or 110 SQ Mile
- Connected to international rail networks
 - An airport is in the plan
- TWV infrastructure, TWEX [Nachole], and TWEX/NET
 - TWV adds international mobility of labor, capital, and factor



TWV Nachole

Relation Between BDT & TWEX [Nachole]

- Bangladesh Taka (BDT) is managed by Bangladesh Bank
 - Composite, board managed, likely partially pegged
 - Floating exchange rate for BDT with each of TWEX[1:n]
- TWEX [Nachole]
 - Fixed exchange rate between any of TWEX[1:n]
 - Individually Variable Interest Rate



SUPER-ID, TWEX, and TWEX/NET

Identity, currency, and a transaction network

- TWEX/NET is an application running on a globally spanning supercomputer @ Peta-TPS speed!
- A SUPER-ID that transcends over a nation's ID system
- SUPER-ID is our primary vehicle for inclusions of globally dislocated people
- The foundations for inclusion and bankability at minimal cost

Why Integrated Logistics?

Onsite customs and inland ports?

- Global logistics is a primary barrier for small entities
- Many layers of freight handling, insurance, and payment processing
- Customs, duties, trade barriers
- This is a stability component in our plan

What our friends say

“90% of what we do is logistics. Anything that solves it is good!”

—Anonymous, An Ag Business Executive.

“TWV sounds good. Good luck. Wish you all the best.”

—Anonymous, A US DoD Executive.

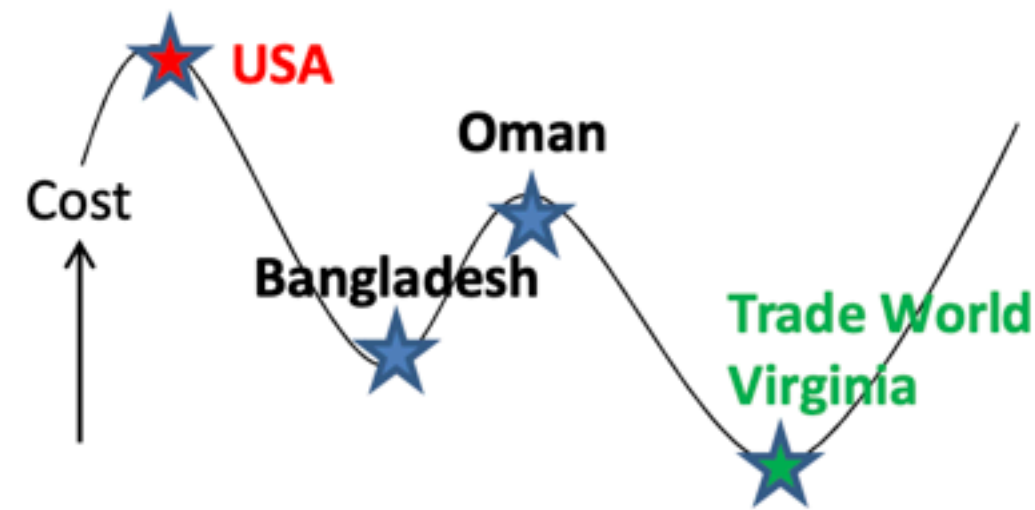
“Now we know, there are ways out!”

—Anonymous, A Virginia Tobacco Commission Executive.

Global, Deep, Parallel Supply-Value Chains

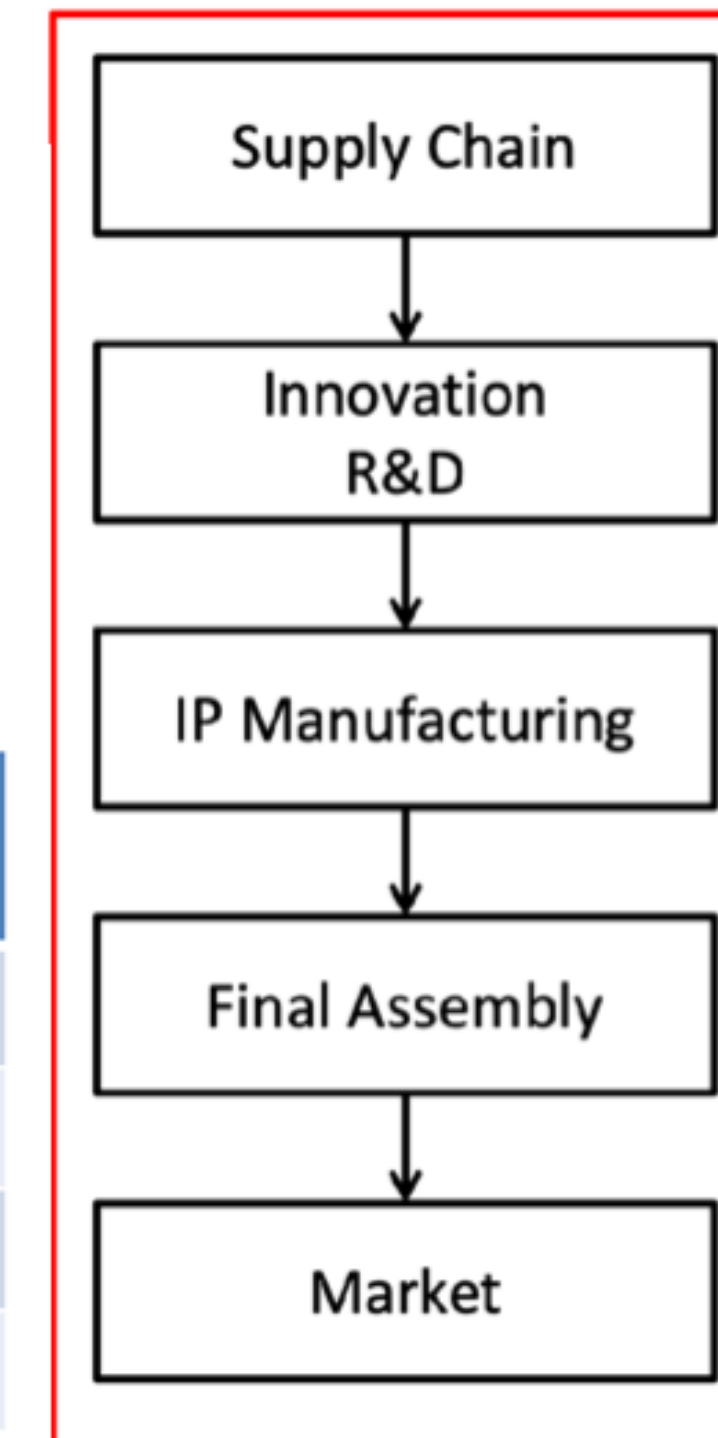
Leads to fault resilient low cost manufacturing

The cost of making a shirt



Country Manufactured	Allocation \$	Actual \$	Risk Premium	Saving \$	Virginia Share %	Competing Nations' %
VA USA	5.00	8.25	0.10	-3.15	-63%	0%
Oman	5.00	4.00	0.25	0.75	0%	15%
Bangladesh	5.00	0.63	1.00	3.37	0%	67.4%
Trade World VA	5.00	0.75	0.50	3.75	75%	0%

Competing nations benefit most in the current paradigm

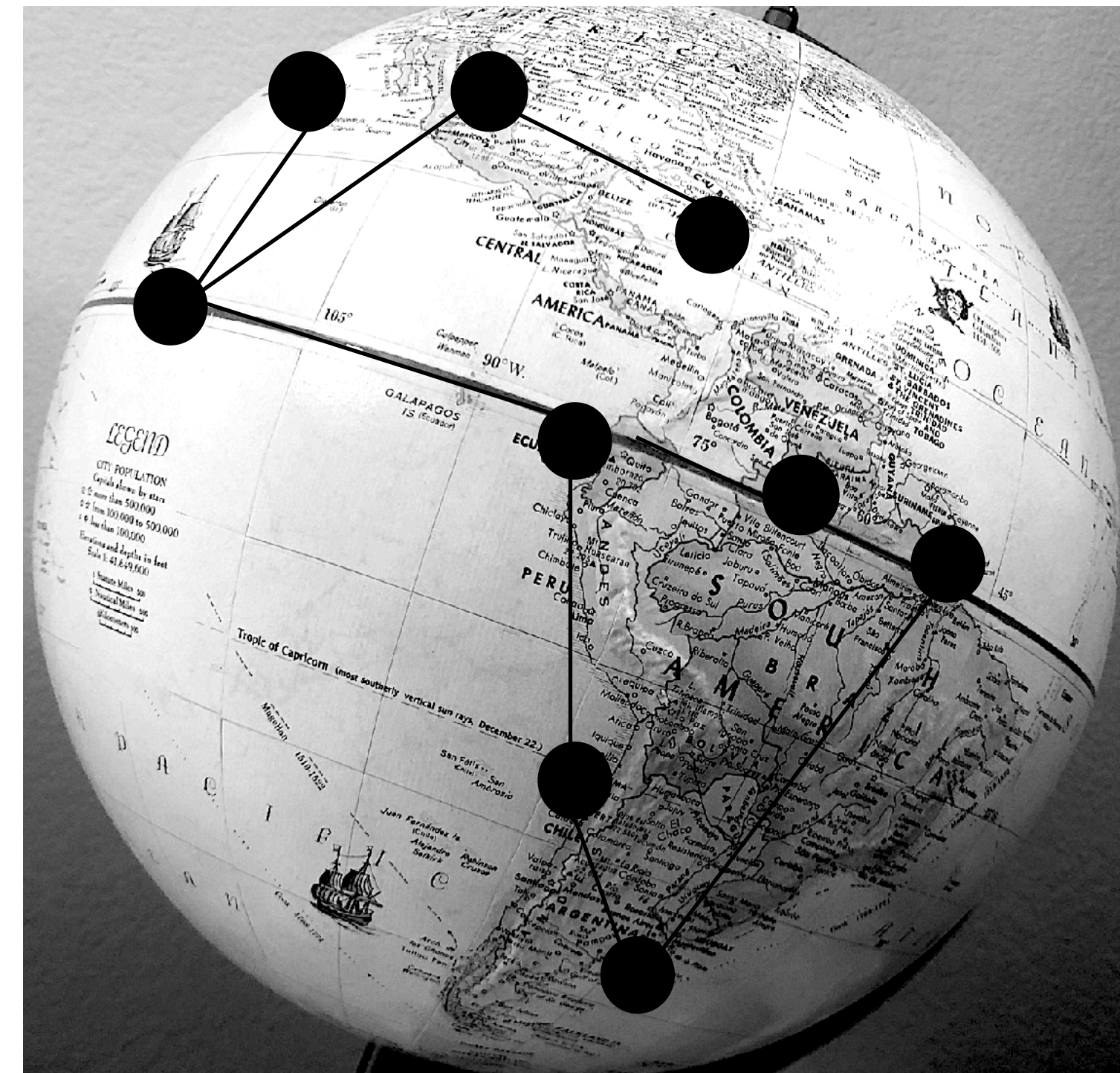


[Kidder 2019] Matthew Kidder, "Value chains that are hard to replace", On chinadailyhk.com, August 05, 2019, retrieved May 2023.

The ONE Paraverse

A 3D Reality

- A connected-node parallel universe
- Real people, real identity, real places, real jobs, real money, real life
- A utopian nation superimposed over an otherwise imperfect world
- A superior political system with superior identity and economic stability
- Rule of law, sound governance, and property rights
- A new tug-of-war between two economic models
- A system for in situ growth of entities

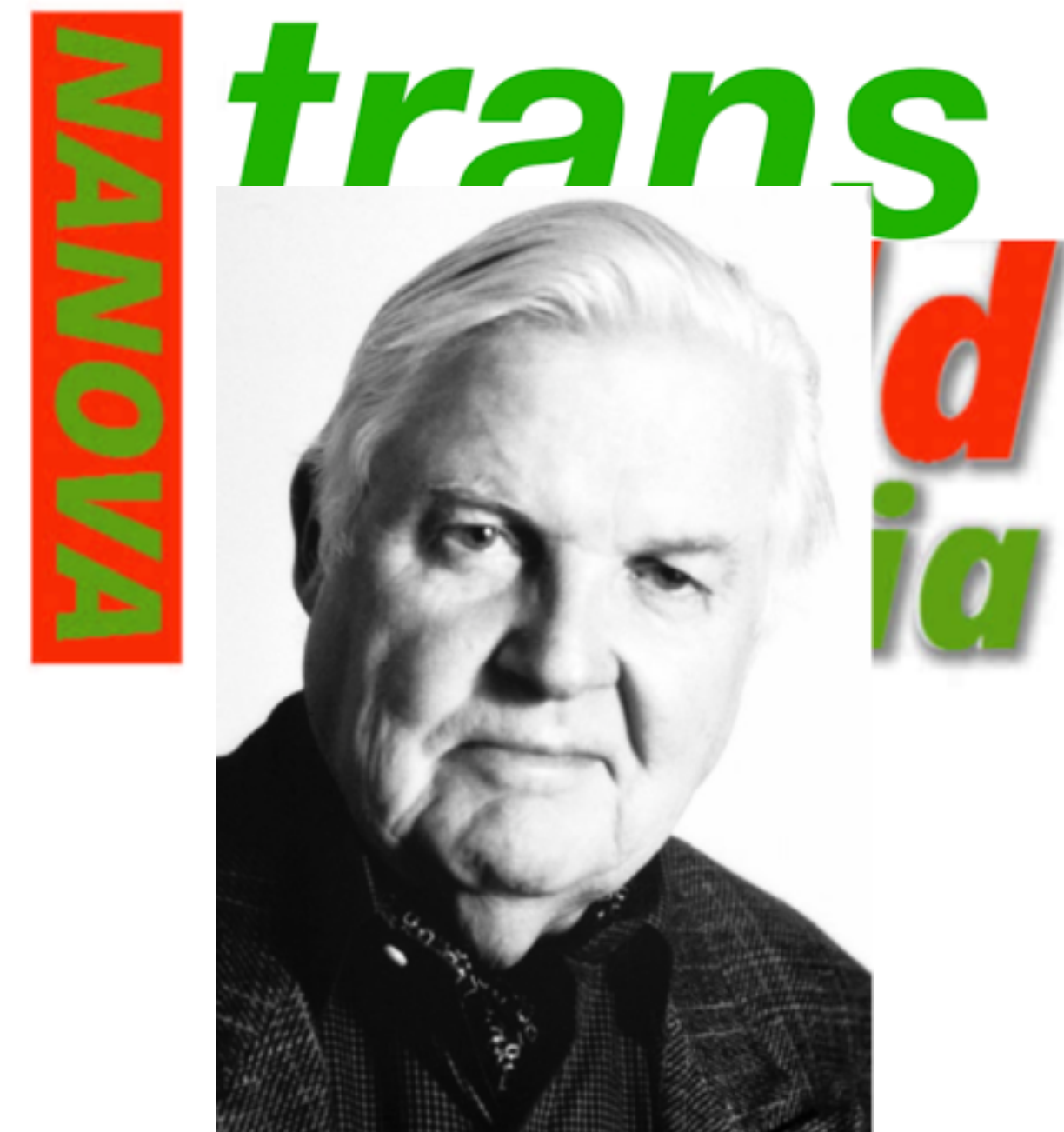


TWV is a 3D reality as opposed to a virtual metaverse

TWV Founding Principles

The fundamentals of investment stability

- A stable system currency leads to efficient trades and capital flow
- An unstable currency leads to economic dislocation by driving away investments
- A currency tied to dollar, pound, euro, yen, and gold [1-3]
- A stable currency, such as TWEX, is a key enabler of TWV (Recall that BIT and RTA may not be good for FDI in many countries)



Robert Alexander Mundell

[1] Robert Alexander Mundell, "The Debt Crisis" WSJ Jan 31, 1981.

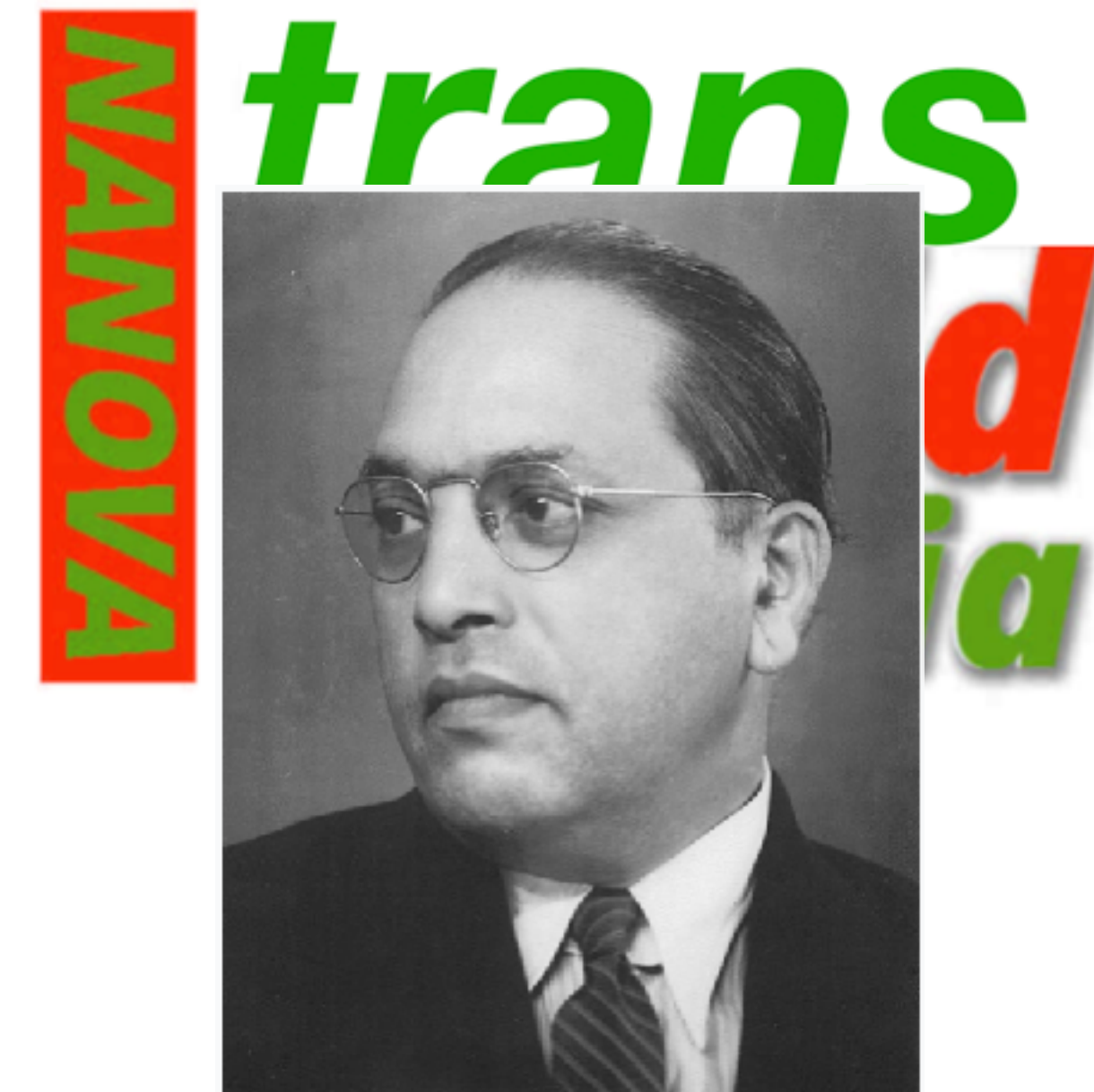
[2] Robert Alexander Mundell, "Threat to Prosperity", WSJ March 30, 2020

[3] "Mundell on Money", WSJ A14-15 4/6/2021

TWV Founding Principles

Economic and social rights of women and all

- Trade, private property, and pursuit of individual wealths
 - Investments in agriculture and industry are primaries
 - Stability is best in the long run
 - Avoid evils of instability
- A common currency based on a single unit
 - Mundell '81: A common currency tied to dollar, pound, euro, yen, and gold
 - Ambedkar '23: But, *currency instability may result from a single debased asset foundation*



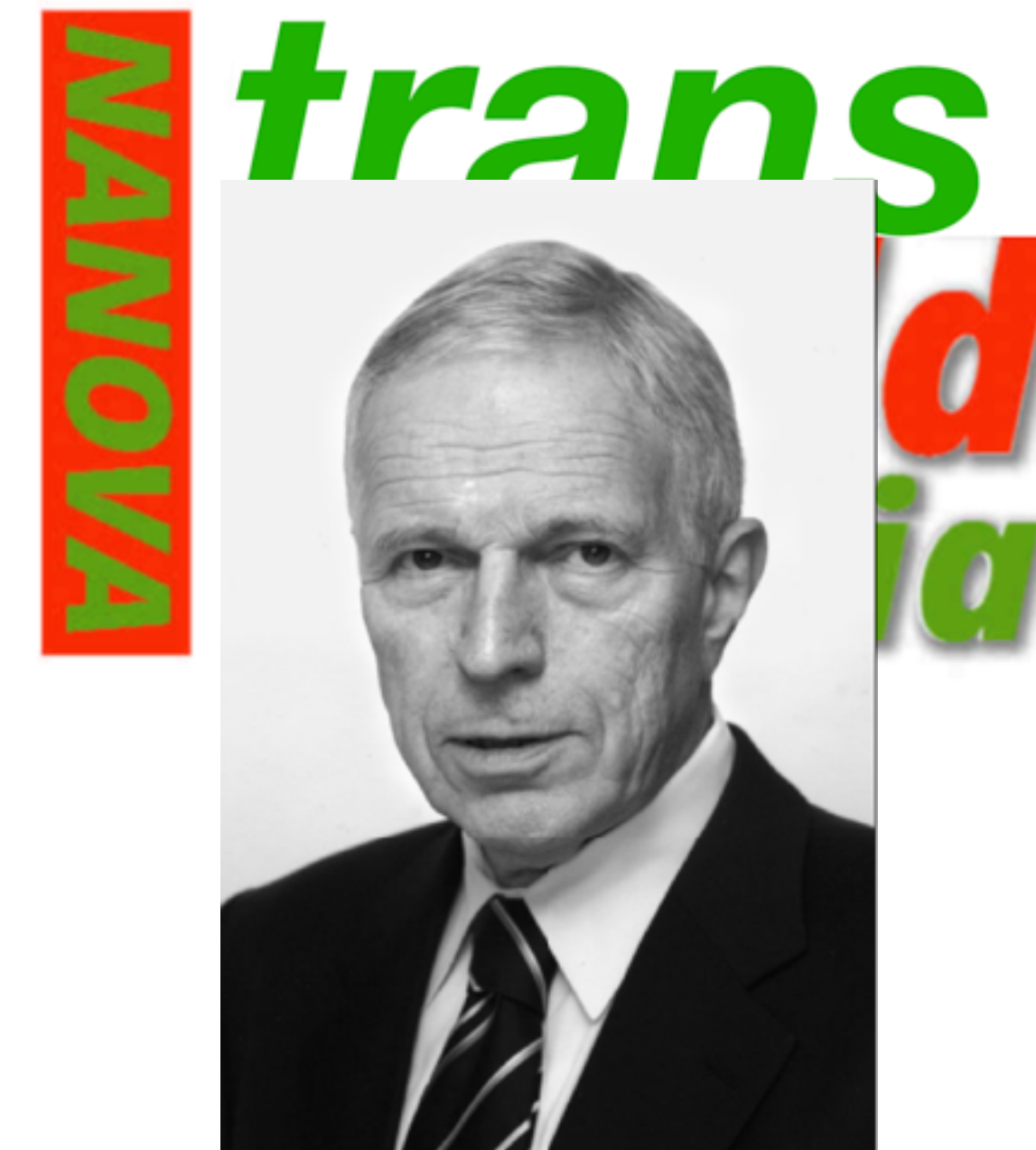
Bhimrao Ramji Ambedkar

[1] Bhimrao Ramji Ambedkar, "The Problem of the Rupee: its origin and its solution", P. S. King and Sons, Ltd, London 1923

High Dynamism and Broad Inclusion

The fundamentals of social dynamism

- Capital dynamism leads to social dynamism
- Inclusion is creativity of entrepreneurs, thriving enterprises, skills of financiers, knowledge of managers to draw upon new methods and materials, diversity of people
- A thriving business sector provides most people an opportunity to use their talents and pursue happiness [1]
- TWV wants to do it at a global scale leaving no one behind

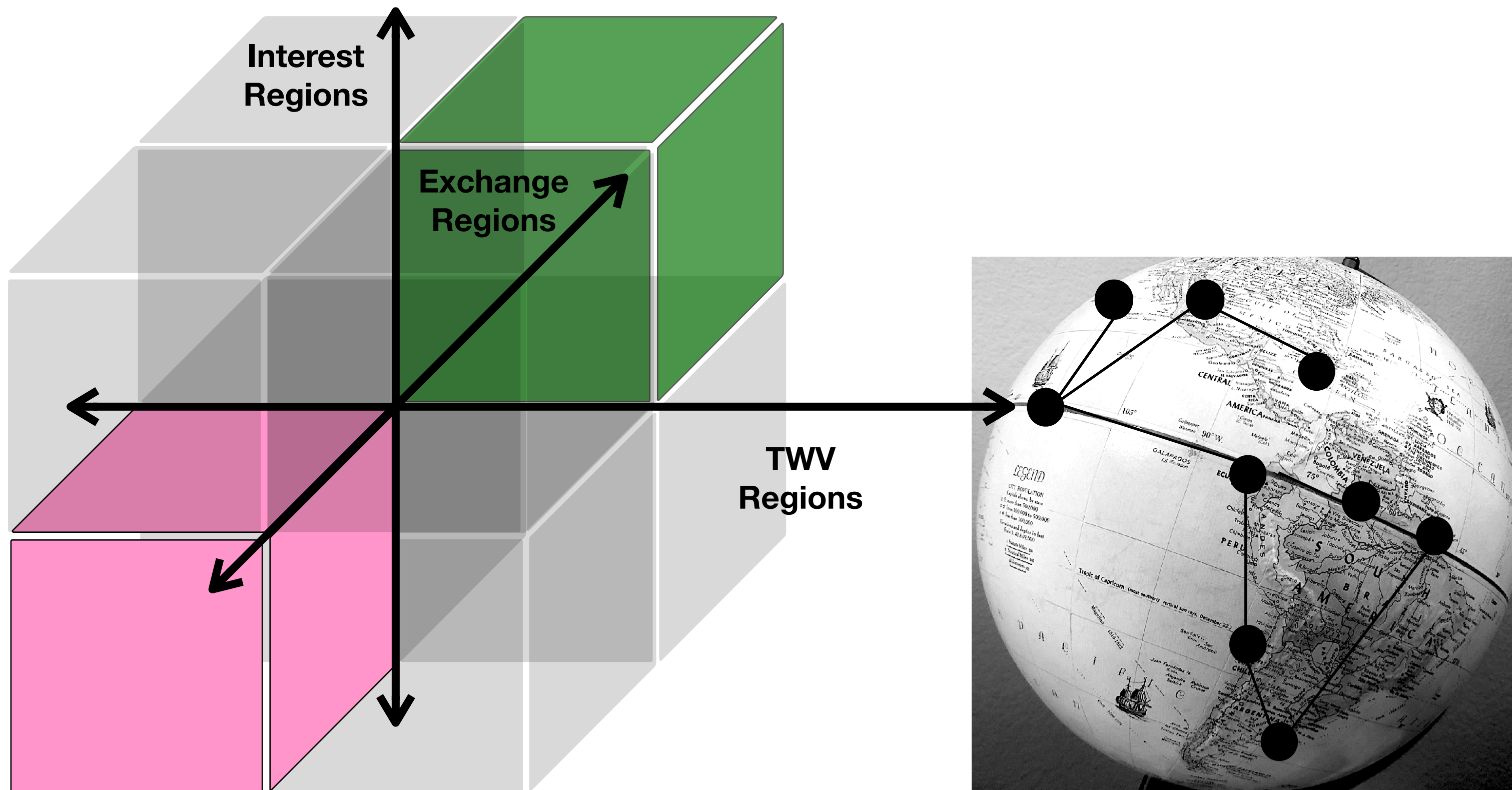


Edmund Strother Phelps

[1] Edmund Strother Phelps, "Dynamic Capitalism", The Wall Street Journal, Page A14, October 10, 2006

The Currency Optimality Paradox

Is there a need for many *fault-tolerant regions*?

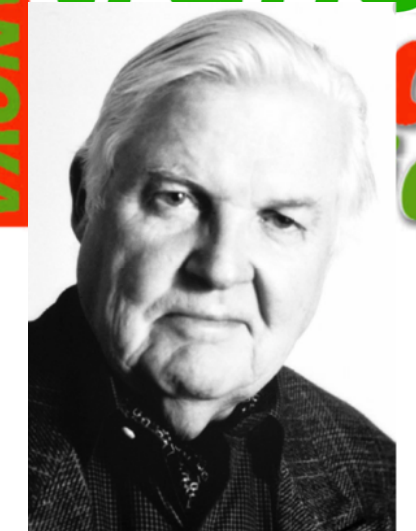


NANOVA **trans**



Bhimrao Ramji Ambedkar

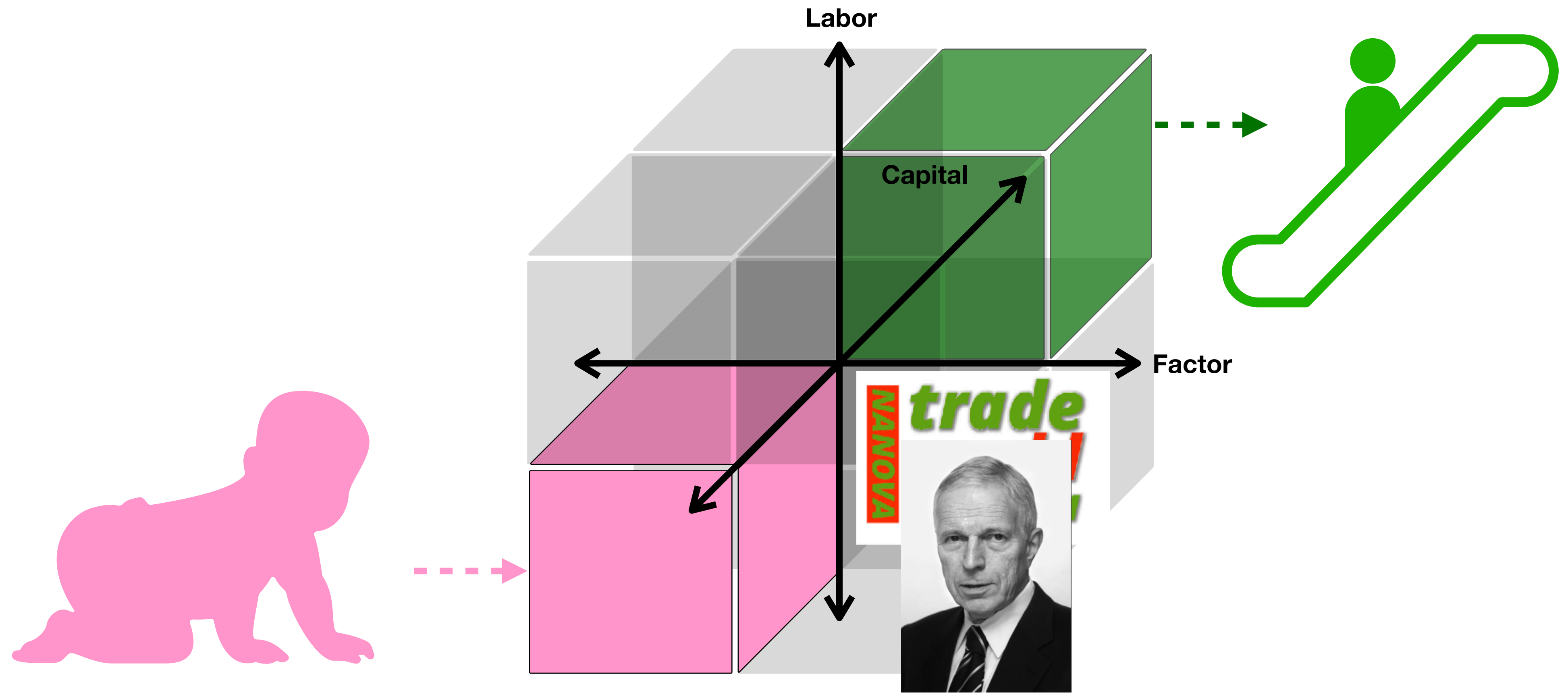
NANOVA **trans**



Robert Alexander Mundell

The Mobility Paradox

Seeing justice as movements of labor, capital, and factor



Nanova Corporation

Proprietary & Confidential

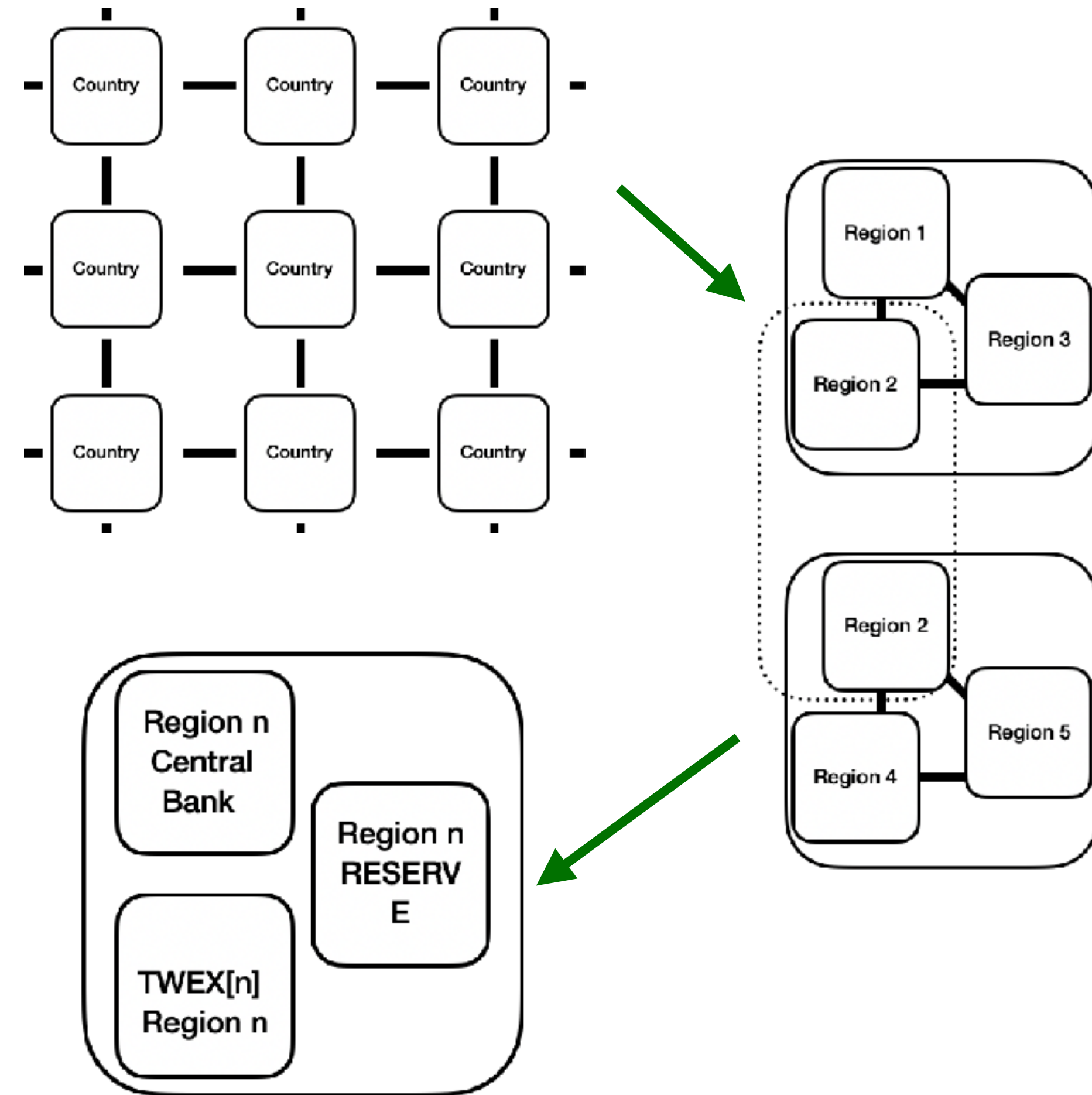
All Rights Reserved

Edmund Strother Phelps

The Paradox of Finding an Optimally Robust Region?

COUNTRY -> Region -> TWV Site

- A country is an anchor point for one or more regions
- Legal framework is based on a site or a region
- Two countries may have one or more shared regions, which may also share a single regional central bank and a single regional currency
- A region may have a region specific central bank and a region specific currency. The regional central bank may manage regional exchange rates, regional interest rates, and regional reserves



Further study - Robert Mundell, "A Theory of Optimum Currency Areas", book chapter adapted from American Economic Review, 51, 509-517, Nov. 1961.

TWEX is a Basket of Regional Currencies

A potential scenario for *one* to *n* regions or sites ..

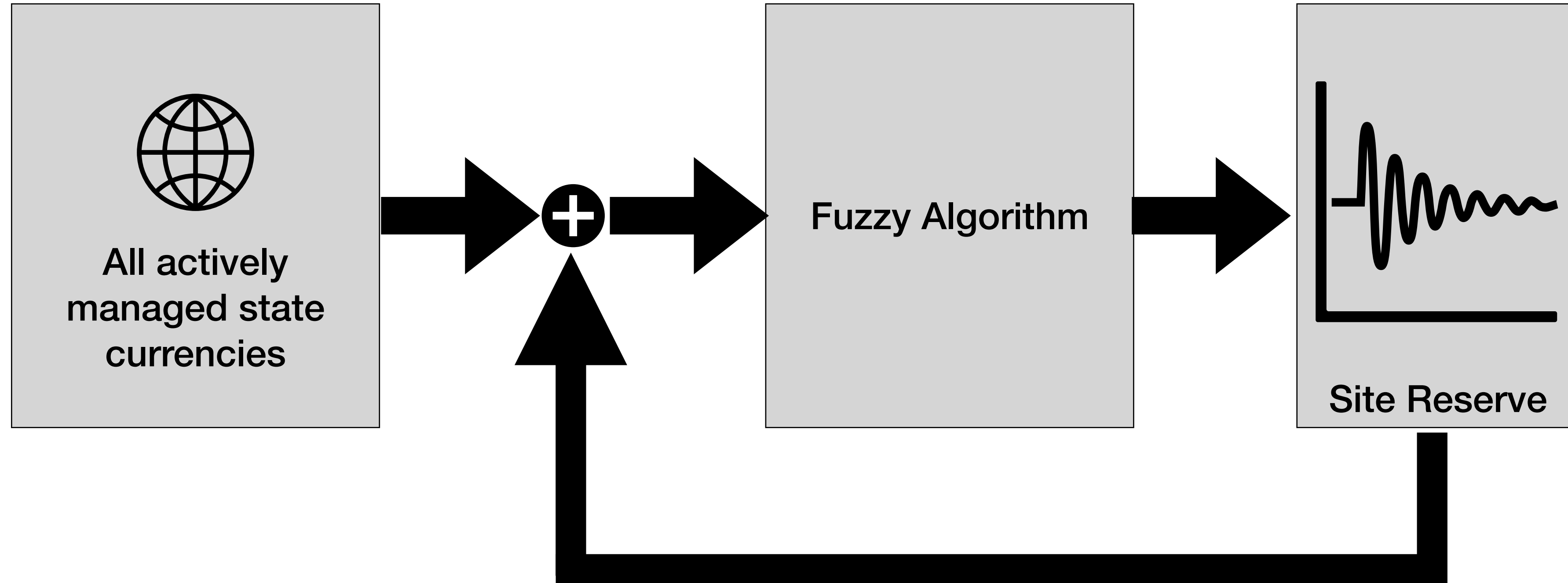
- **TWEX = $SUM\{ a_1*TWEX[1], a_2*TWEX[2], \dots a_n*TWEX[n] \}$**
 - Fixed exchange rate between any two of $TWEX[1]$ to $TWEX[n]$
 - *All different, i.e. $a_i \neq a_j$ and $TWEX[i] \neq TWEX[j]$ for any $i \neq j$*
- **Interest Rate = $set\{ Ir[1], Ir[2], \dots Ir[n] \}$**
 - Policy driven and individually variable, each of $Ir[1]$ to $Ir[n]$
- **Exchange Rate = $set\{ Er[1], Er[2], \dots Er[n] \}$**
 - Individually fixed or variable, each of $Er[1]$ to $Er[n]$
- **Central Bank = $set\{ CB[1], CB[2], \dots CB[n] \}$**
 - Each of $TWEX[1]$ to $TWEX[n]$ gets a dedicated central bank
- **Reserve Stock = $SUM\{ Rs[1], Rs[2], \dots Rs[n] \}$**
 - Each of $CB[1]$ to $CB[n]$ manages its own reserve $Rs[1]$ to $Rs[n]$

Further study -
Mundell, Chapter 11 / The Monetary Dynamics of International Adjustment under Fixed and Flexible Exchange Rates, adapted from the Quarterly Journal of Economics, 74, 227-257, Harvard University Press, May 1960,

Ambedkar, Ambedkar, "The Problem of the Rupee: its origin and its solution", P. S. King and Sons, Ltd, London 1923.

TWEX is an Active Canonical Currency

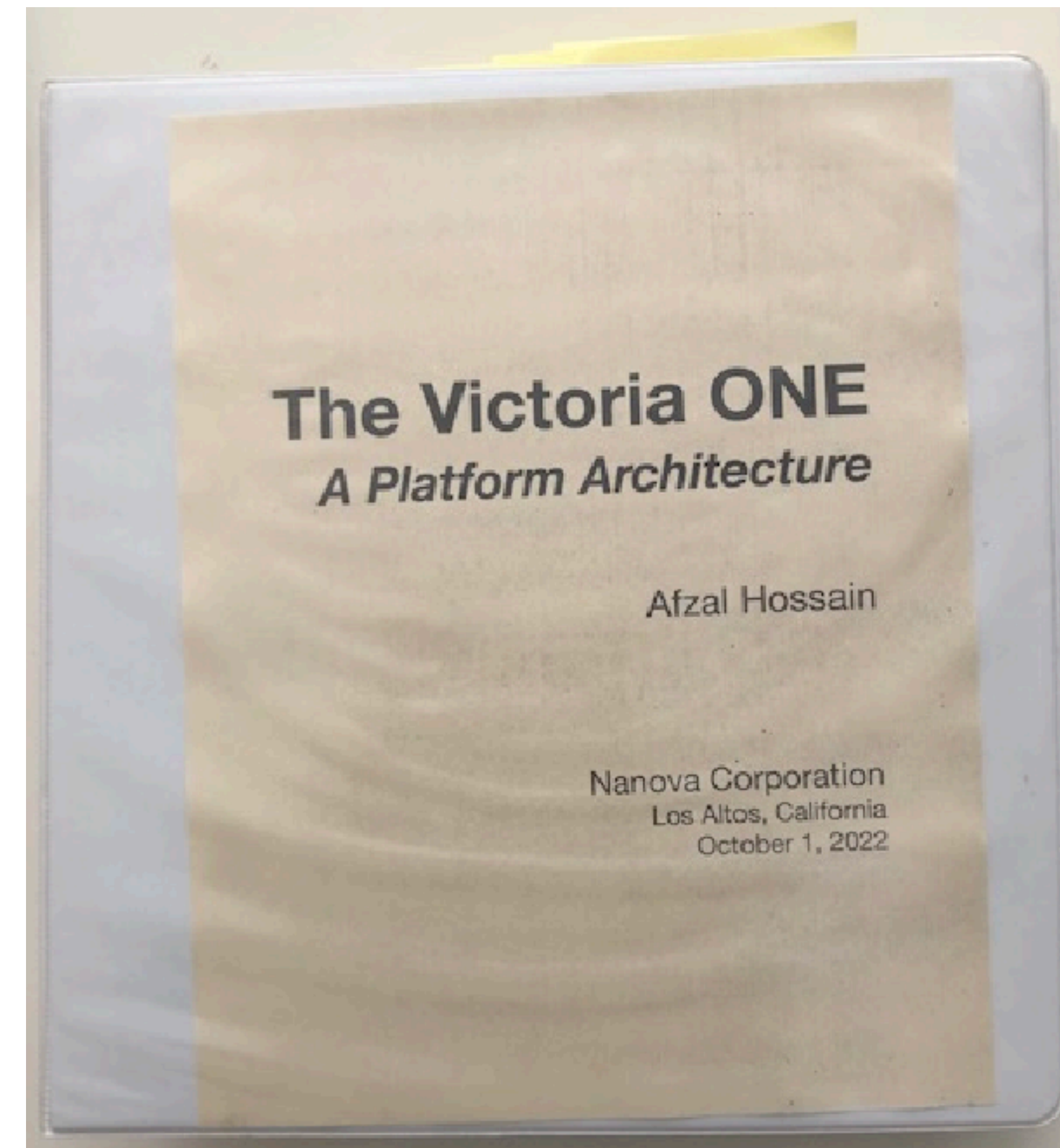
A Real-time Application



The *Victoria* ONE Platform Architecture

A Novel Foundation of a Supercomputing Datacenter

- When TWV must do all simultaneously -
 - Run 10,000 central banks
 - Host 10 Billion bank accounts
 - Manage identity of 7 Billion people
- We took a historical approach to design
 - A Human Centric Design - people is the computer
 - One world, one people, one network
 - A node is physical present at each TWV site
- Native architecture for TWEX and TWEX/NET



A Testing Workbench for TWV

A template for an expandable US-UK trade agreement

- The common values [1][2]
 - Quantifiable and enforceable
- Protection of intellectual and tangible properties
- The core agreements
 - Expandable multi-party template to include other willing nations
 - Inter-operability with existing agreements
- TWV enablers
 - Customs, TWEX/NET, common capital-market, dispute resolution, farm-exchange, logistics, security
 - SUPER-ID, travel, taxes and tariffs, labor agreement
 - Trade research center and business incubators
 - Sunset and withdrawal

[1] Elizabeth Mary Truss, Opinion, WSJ March 2, 2020

[2] Michael John Gallagher, Opinion, WSJ Feb 7, 2020

Conclusions

- A one world currency for trade and payment may be a good starting point for the ONE World Currency
- Improved and tangible definitions of inclusion, and justice
- Addresses many of currently known issue
- Promoting Neom as the TWV world headquarter
- A mathematical analysis of the system is ongoing

ACKNOWLEDGEMENTS

Lee Hood Capps
Bonnie Sue Coffey

Sanja Djukic
Vanja Borovic
Mirna Ahmed Emad

Jennilyn Tagupa

Upwork
The Wall Street Journal

THANK YOU!

Trans World Virginia
C/O - Nanova Corporation
4962 El Camino Real, Suite 101
Los Altos, CA 94022

Message: +1(540) 316-9181
Nanova.com