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**US – UA Working Group Yearly Summit XI: Providing
Ukraine with an Annual Report Card Amidst War
Year Two – June 14th, 2023**

Responsible Market Economics



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REUNITE

REbuilding Ukraine's National Independence Through Education



Sound Fiscal & Monetary Policy

Proper Business Transparency / Anticorruption Mechanisms

Plans for Post War Reconstruction



Sound Fiscal & Monetary Policy

Central to the reconstruction effort and the funding to support it will be an understanding of the prevailing monetary and fiscal policy.

We at RUAI are now beginning to do a needs assessment for our [REUNITE](#) education program. Knowing what the funding policies are going to be will determine many of the certification programs, courses and management systems that need to be established.



Proper Business Transparency / Anticorruption Mechanisms

- Legal Process. (Contract law)
 - Business licensing. (Federal / State (Oblast) / City / Municipal)
 - Site planning and permitting. (Highly political and time consuming)
 - Bonding and Surety.
 - Open transparent, best practices, competitive bidding process.
 - Project management systems must have checks and balances in place to assure what is requested to be paid for has been built as designed and specified.
- Corruption is crime – this must be addressed by the legal and criminal law system, and impartially enforced.



Plans for Post War Reconstruction

It took the Eastern European countries of the former Soviet Bloc – over 10 years to fully integrate EU and Western Standards into their country's academic institutions, government ministries / agencies and industries.

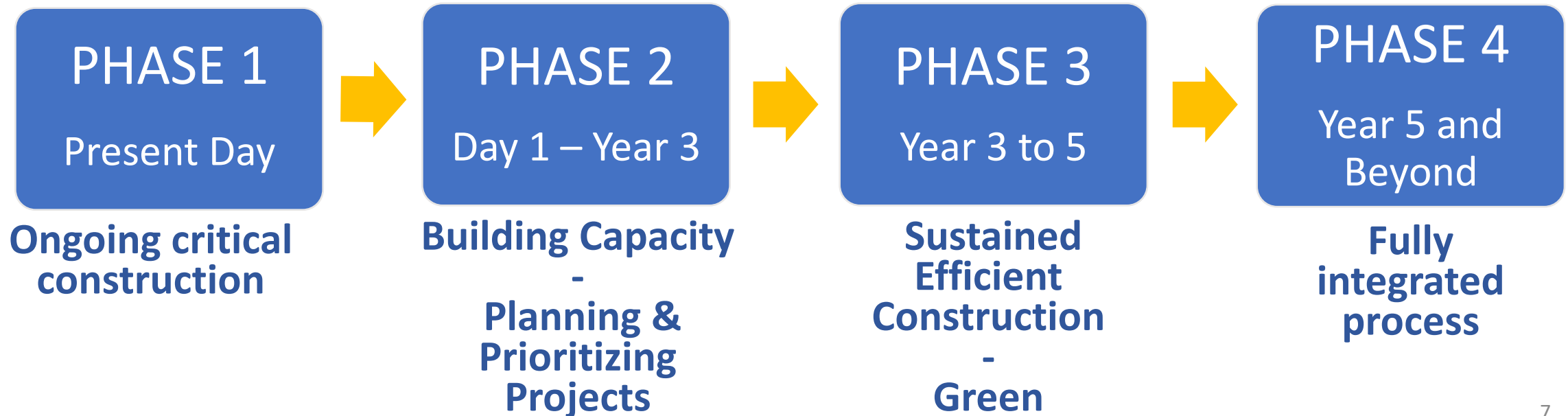
Ukraine must do it faster!!



Plans for Post War Reconstruction



Where are we now and where are we going

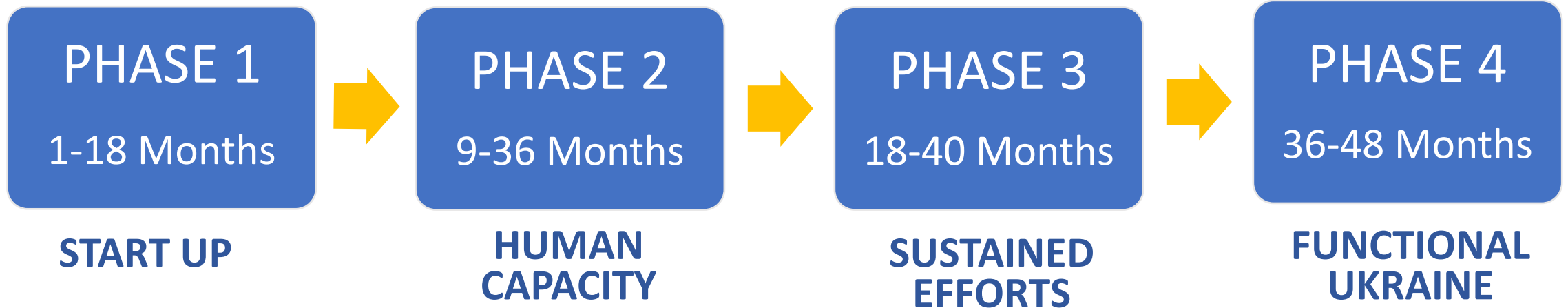


Plans for Post War Reconstruction



WHAT, WHO, HOW, WHERE & WHEN?

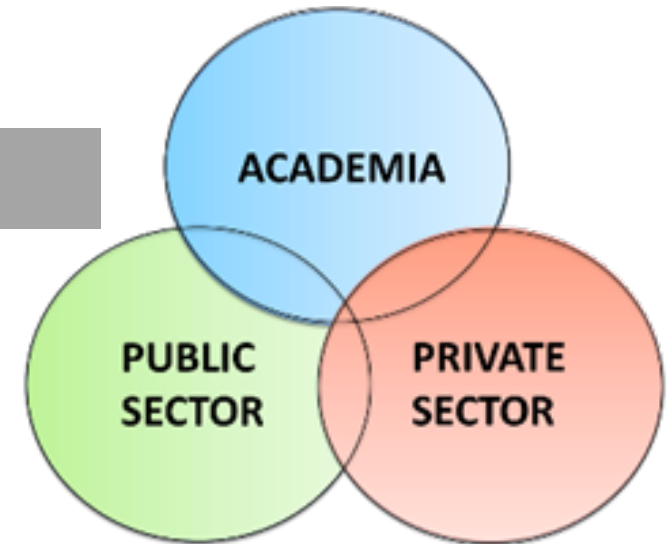
attainable phases...a massive effort in those 5 questions, which must be divided into



WHAT needs to happen now?

Strengthen Human Capital thru Education and Training

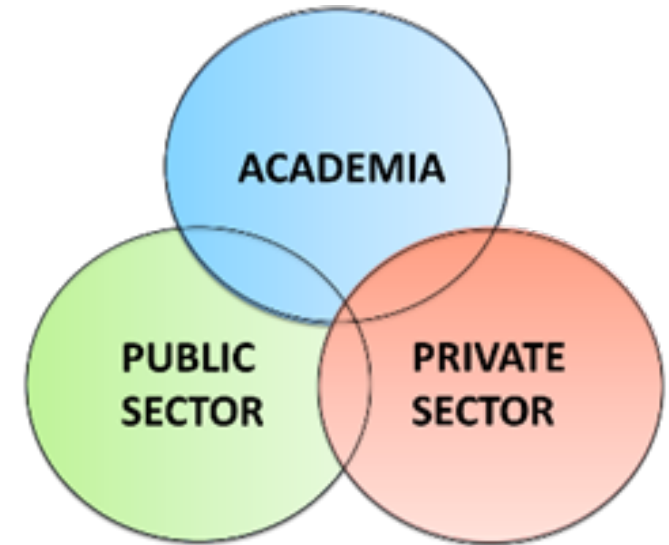
- Plan and educate the workforce.
- Identify and Evaluate – damaged/destroyed Transportation, Communication Structures, and Infrastructure.
- Identify and Evaluate existing workforce and building materials.
- Increase numbers of highly qualified Ukrainian planning, architectural, engineering, construction management and craft professionals enabled to ensure utilization of leading-edge technologies and materials.
- Develop capacity in environmental sustainability and resiliency under the European Union guidelines.



WHO?

4 Sectors needed to interact

- Academia
- Government. National, Oblast or Regional, City, Local
- Local Industry
- Supplemental Transportation, Engineering, and Telecommunications Consultancies from the West



HOW?

1. Targeted Funding
2. Overall Phased Time-Action Plan focused on EU Integration
3. Specific Strategies for attracting and retaining women, veterans, and displaced refugees. (700,000 Returning Soldiers / 300,000 Support Staff)
4. Comprehensive improvement of design, construction, & planning industries through:
 - *University-level degree programs*
 - *Professional development programs*
 - *Craft skills and technical training*
 - *Community outreach and engagement activities*

WHERE?

- Decision on geographic locations including EU and USA
- Critical infrastructure - Rail, Airports, Shipping Ports, Telecommunications Main Switch and Wireless Communications Structures
- Construction of Housing, Hospitals, Schools – pending decisions on prioritization
- Online
- Ukrainian University and Industry Partner Locations
- Identified priority locations in Ukraine by local stakeholders.

UKRAINIANS MUST DECIDE

WHEN?

- Now!!
- Need Task Force
- Planning and Education
- **“Need Infrastructure in place to Build Infrastructure and Housing”**
- Technology must be in place
- Put certified programs together

WHEN? *Four phase approach over four years*



Three-legged stool of Post-War Ukraine

WHAT

Infrastructure including
Transportation,
Communications, Construction

- Up to \$1 trillion over 10 years
- Green
- Sustainable
- PROJECT
TRANSPARENCY

WHO

Educational/Vocational Training

- New design/construction technologies
- Job creation to attract 6 million refugees home
- Training for 700,000+ demobilized soldiers & 50,000+ downsized government workers

HOW

Economic Development

- EU Membership Process
- “Fortress Ukraine”
- Agriculture & IT Legacies
- Modernized economy/
Secure democracy is in the interests of the US and the EU

Construction Industry Challenges



80%

overruns in capital expenditure



20%

longer to complete averaging 20 months overschedule



29%

Lag in productivity of gross value added per hour worked

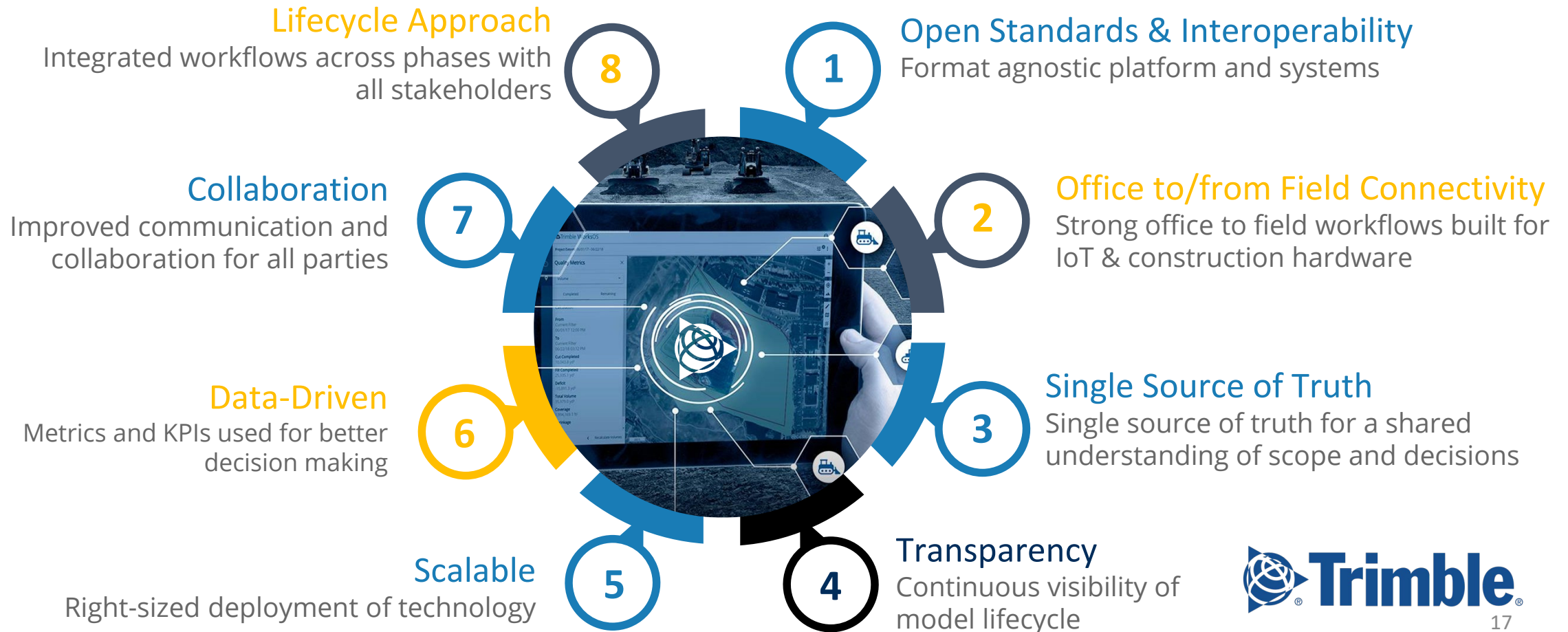
Large projects across asset classes typically take 20 percent longer to finish than scheduled and are up to 80 percent over budget.¹ Construction productivity has actually declined in some markets since the 1990's; financial returns for contractors are often relatively low—and volatile.²

¹ Global Projects Database, IHS Herold, Nov 19, 2013, herold.com; McKinsey analysis

² US Bureau of Economic Affairs; US Bureau of Labor Statistics; WIOD; World Bank; GGCD-10; national statistical agencies of Turkey, Malaysia, and Singapore; OECD, Rosstat, McKinsey Global Institute analysis

The Future of Digital Project Delivery

Bridge the gap between design and construction like no one else



Digital Construction

TRANSPARENCY



One Single source of truth

Built around a structured database federating all stakeholders inputs for each project phase, tracking design variation, physical progress and enabling the handover of a Digital Avatar of the project

VISIBILITY



Graphical display of Comprehensive data

Reducing the overall lifecycle costs, the amount of deviation between design and construction, empowering the decision making through a data driven process

PREDICTABILITY



Integrated database crossing parametric design, embedded planning and budget information

Enabling to anticipate upcoming events

CONTROL



A confident delivery process empowered by Trimble solutions

*Special Thank You to all for their efforts in preparation
of this presentation*

DR. ROBERT COX

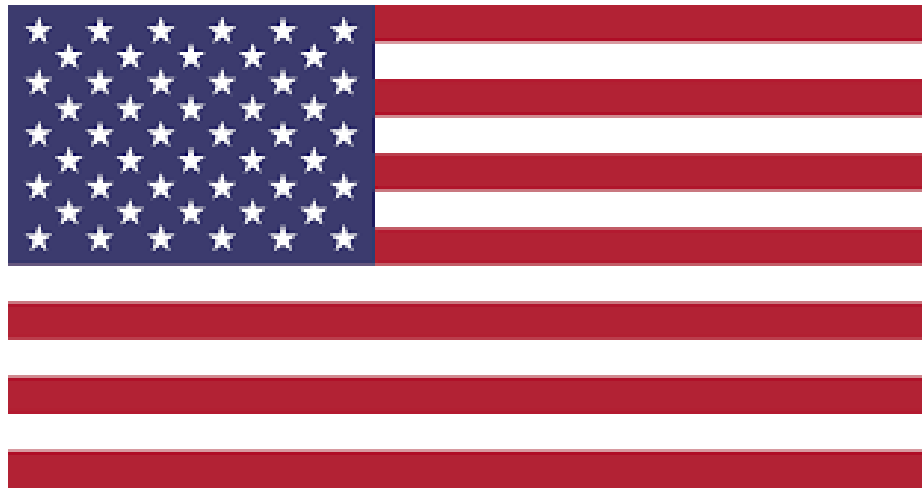
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Standing With Ukraine