

From Development Team to Development Stream: Innovating STS Theory and Practice for new “Adaptive Work Systems”

Session Objectives

- Share the journey of the STS Roundtable's discovery process which illustrates how a virtual community of practitioners and academics are reaching out from our past of action research and collaborating in a self- managed way to discover STS today
- Engage with the community to consider how we might widen our Discovery Stream to co-create the development of theory and practice for global impact

DISCOVERY PURPOSE

STS has matured and while it once was a technology that very effectively solved specific workplace problems of the 60's, 70's and 80's, work has become increasingly global, virtual, and dynamic, requiring us to reassess STS. We believe STS is relevant today and for the future based on the robustness of the theoretical framework first formulated in the 1960's. Our purpose is to **discover** a new conception of market need and the application technology to address this new need.

For STS to survive as a viable philosophy, concept, and contribution to the world of work, it must undergo a **discontinuous change**. Our collective role is to preserve the core values and principles of STS and discover through re-invention the new STS technologies that provide value. We are striving to produce:

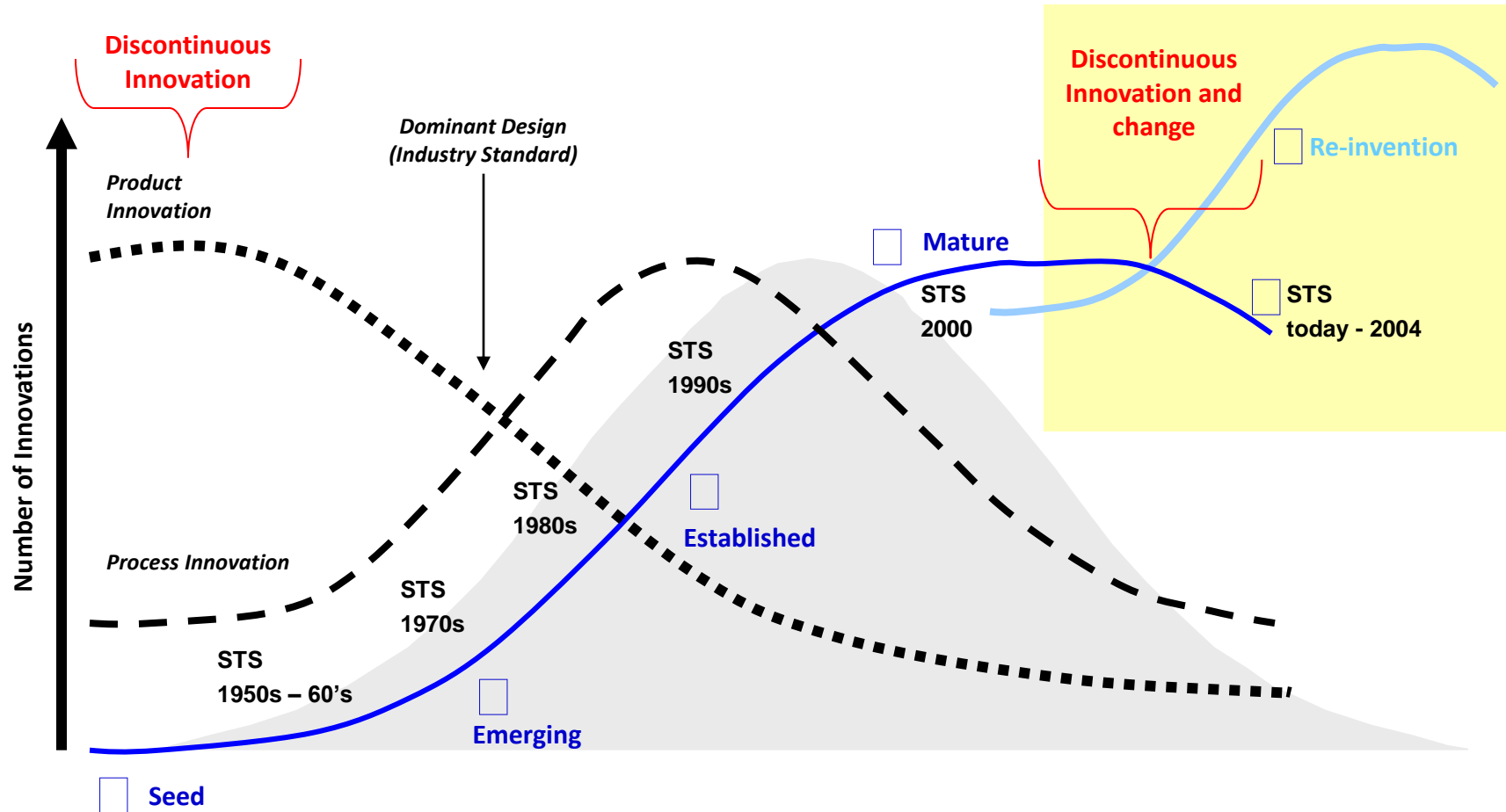
- An evolving way of thinking about enabling “humane” organizations and model their new design features
- A set of principles for designing organizations to meet the challenges in the current market place
- A design process for applying the above principles in our practice as organization consultants

STSRT DISCOVERY ROADMAP

2004	2005	2006	2007	2008	2009	2010	2011	2012	
Scottsdale RT	Chicago RT & Montreal RT	Portland RT	Ottawa RT	Memphis RT	Chicago RT	MAY DT New Hampshire	SEPTEMBER RT Vancouver	SEPTEMBER RT New Orleans	SEPTEMBER RT CANTEBURY, UK
<p>Renewal of our Intellectual spirit of inquiry:</p> <p>What does an STS approach to design look like in the 21st century?</p> <p>Attended by two dozen STS stalwarts</p>	<p><u>STS Reinvention Began</u></p> <p>Jim Taylor & Stu Winby framed the STS S-Curve challenge in Chicago.</p> <p>The Reinvention Group [McGee, Ordowich, Painter, and Winby] formed coming out of Montreal.</p>	<p>The STS Community refined the Reinvention Framework & Reinvention Roadmap to address identified 21st century organizational obstacles</p> <p>The Reinvention Group was renamed the Discovery Team & expanded to three more members – Bateman, Merck & Posey</p>	<p>The STS Community applied the Discovery Framework to two case studies presented to demonstrate new design approaches.</p> <p>The Discovery Team grew with the addition of two more members – Austrom & Mohr</p>	<p>The STS Community applied the Discovery Framework to two case studies & deepened its understanding of future direction.</p> <p>The Discovery Team expanded with one more member – Maupin & carried out interim work – e.g. Bell Helicopter Case webinar</p>	<p>The STS Community began to iterate a future concept of an innovative and adaptive organization.</p> <p>The Discovery Team grew again with two more members – Laliberte & McDermott & carried out interim work – e.g. STS Webinars & planned for a Healthcare Solutions Lab</p>	<p>The Discovery Team met face-to-face for the 1st time as a team outside the annual meeting (a commitment of 3 days) to synthesize our learnings to date regarding the future of STS.</p> <p>Using a process developed by Stu Winby, the team created a prototype of a new design model [AEM] including a new iteration of values and design principles as well as a new design process.</p> <p>The Discovery Team added participants for this event – Don DeGuerre & Mary Winby</p>	<p>The STS Community added to the next horizon of STS thinking, affirming the complexity of new organizational forms.</p> <p>The Discovery Team expanded with Joe Norton</p>	<p>The objective is to have the STS Community participate in the R&D work of the Discovery Team during the session to further the development of new STS thinking.</p>	<p>The objective is to have ongoing collaboration of the STS Community in a Discovery Process of action research throughout the year.</p>

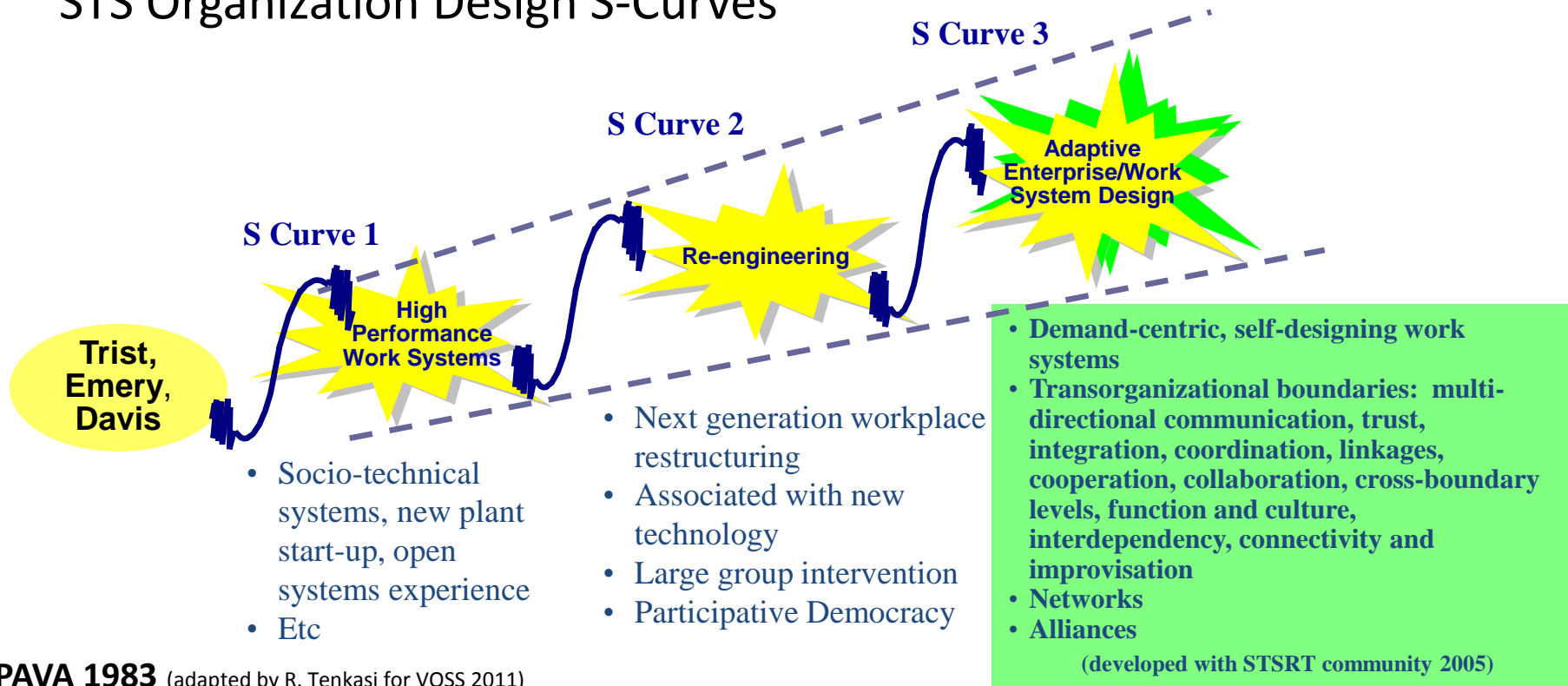
STS - Innovation across the Lifecycle

Presented in Chicago, May 2005 by Stu Winby and Jim Taylor



The Chicago 2005 Roundtable dialogue confirmed the need for innovation and change to renew the practice of STS.

STS Organization Design S-Curves



PAVA 1983 (adapted by R. Tenkasi for VOSS 2011)

STSv1.0

Routine work in a single organization – e.g., coal mines, factories, oil refineries

- Work groups with pooled identity
- Unitary conversion process
- Linear conversion sequence

STS v2.0

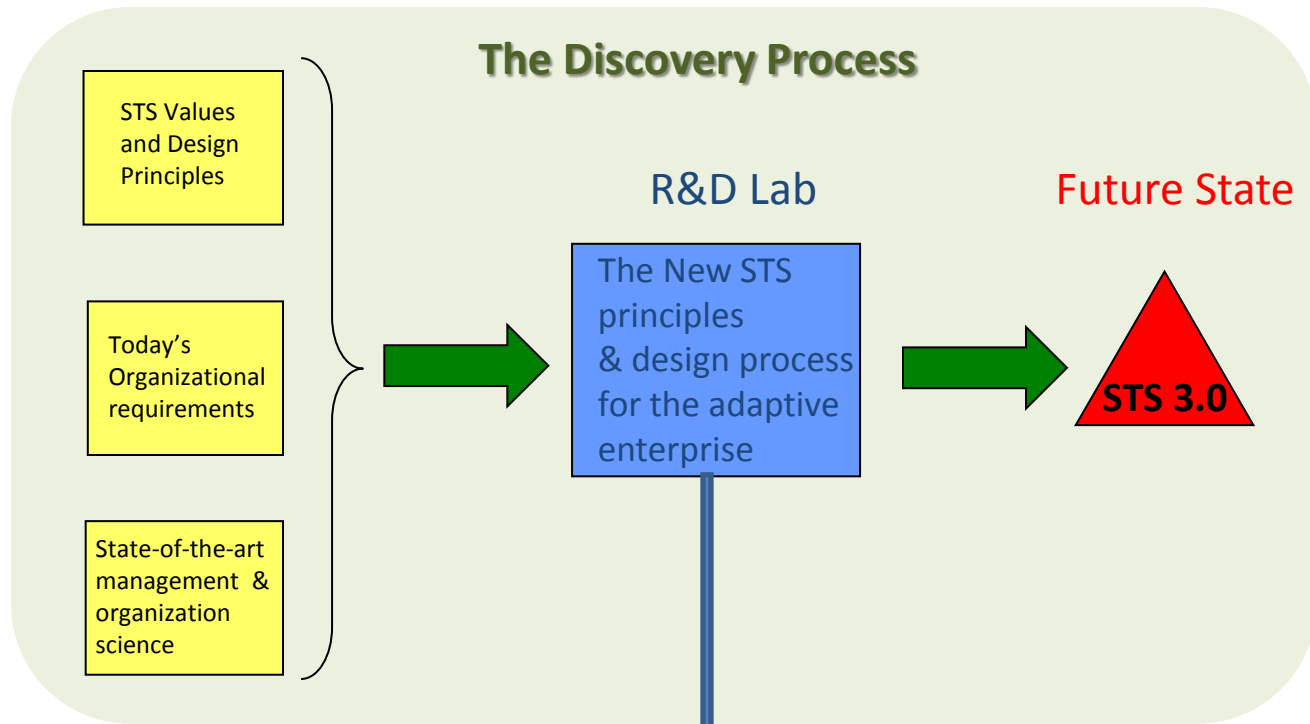
Non-routine knowledge work in single organizations – e.g., white collar office work, professional services firm, NPD and R&D

- Individual performers, specialized expertise
- Multiple, concurrent conversion processes
- Nonlinear conversion flow

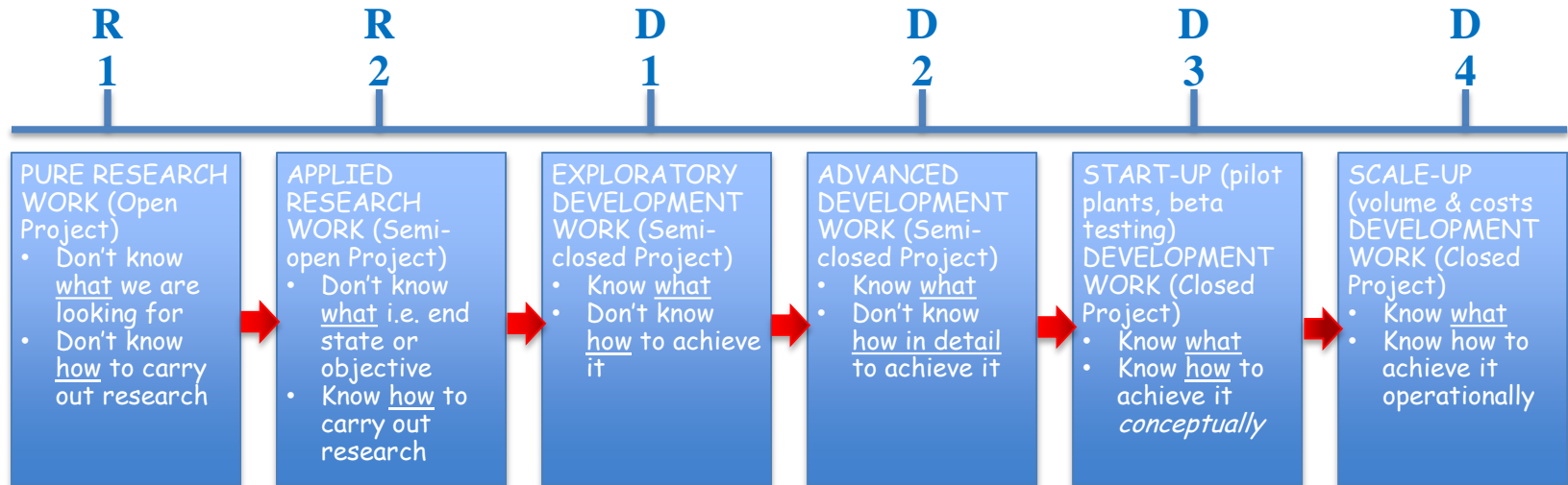
STS v3.0

Virtual, non-routine work – e.g., R&D consortia, complex supply chains

- Individual performers and work groups distributed across multiple locations and/or organizations
- Multiple, concurrent independent and interdependent conversion processes
- Nonlinear conversion flows



A Six Stage Continuum of the R&D Process



Team Descriptions



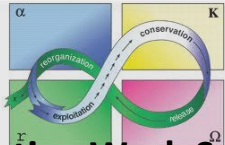
VOSS

- **Design Intent:** To discover the impact of virtuality on deliberations across the R & D continuum
- **Approach:** Research - Case study methodology - 3 sites
- **Current:** Analyzing results, continued research/survey, complete paper



Adaptive Enterprises

- **Design Intent:** Humane enterprise design in an increasingly turbulent and connected world
- **Approach:** Co-creation, observation, action research
- **Current:** Continued action research, cases, documentation



Adaptive Work Systems

- **Design Intent:** To develop the next generation STS Model
- **Approach:** Action Research - Co-creation, case studies, deep dives
- **Current:** Continued action research, cases, documentation



Voice of the Worker

- **Design Intent:** define a clear focus for the ongoing discussion in engaging meaningful voice for workers in organization and community design
- **Approach:** Observation, case study, research & writing exchange, on-line dialogue & discussion, on the subject of direct and indirect worker voice
- **Current:** Continued action research, cases, documentation



Writing Round Table

- **Design Intent:** Support writing that advances STS theory and practice; encourage dissemination of writings
- **Approach:** Quarterly tele-conferences about individual and group writing projects. Participation welcome at every stage of writing
- **Current:** Several member projects discussed; upcoming discussion of work-in-progress on expertise.

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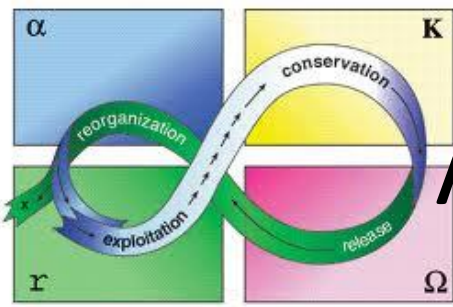




Adaptive Enterprise

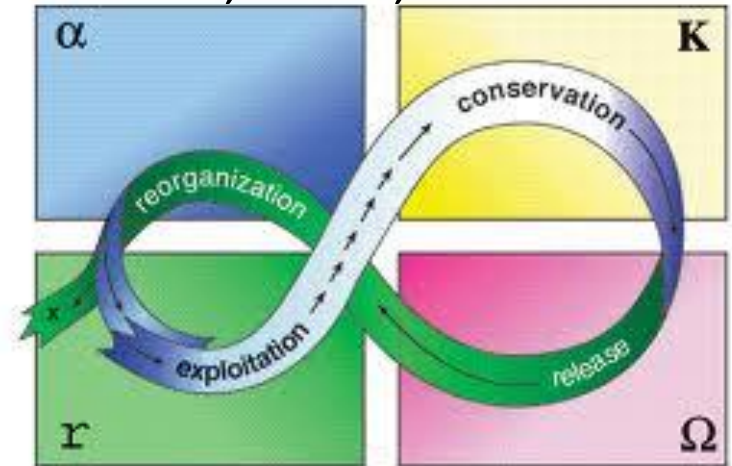
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Adaptive Work Systems

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- **Approach:** Action Research - Co-creation, case studies, deep dives
- **Current:** Continued action research, cases, documentation





Voice of the Worker

- **Design Intent:** discussions have been an attempt to define a clear focus for engaging meaningful voice for workers, illuminating essential nature of worker involvement in designing work and enterprises for sustainable economies
- **Approach:** On line discussion and sharing of team members writing and research on the subject of direct and indirect worker voice
- **Current:** Continued action research, cases, documentation



STS Writing Roundtable

- **Purposes:** Support writing that advances STS theory and practice; encourage dissemination of writings
- **Approach/methodology:** Quarterly tele-conferences about current/proposed individual and group writing projects. Participation welcome at every stage of writing.
- **Current state:** Several member projects discussed; upcoming discussion of work-in-progress on expertise

Exercise

Directions: At your table, please discuss and capture your discussion on a flip chart or two, put up on map and be ready to reengage with the full group in 30 minutes.

- What shared learning processes have you/others experienced with respect to the development of STS theory and practice?
- How can you imagine joining in this stream to broaden and strengthen- co-create our STS theory and practice globally for the 21st Century?