

# Comparative Assessment & Performance Tool for Innovative Workplaces

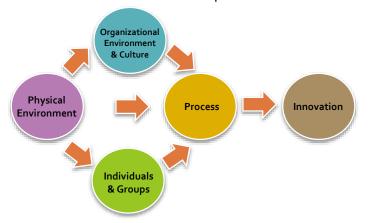
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A free comprehensive diagnostic and benchmark tool for the performance of workplace environment in relation to innovation performance of an organization

- specifically developed by a collaborative effort between industry and research partners to provide organizations a dynamic analytic platform

Innovation is at the heart of successful, competitive companies. A workplace conducive to innovation is a must to foster the culture of innovation. In workplace design, a one-size-fits-all-answer to what makes a company innovative does not exist. To fully understand the needs and goals of each workplace, **CAPTIW** (pronounced [captiv]) is broken down into 3 parts.

At the center of **CAPTIV** is the CHPKW (Creative & High-Performing Knowledge Workplace) model developed by Dr. Young Lee. Based on this model, **CAPTIV** analyzes how the physical environment impacts *organizational culture*, *process*, and *people* in order to increase innovation performance.



# PART 1: Key Performance Indicators (KPIs) of the Physical Work Environment

It examines the performance of the workplace environment with 7 key indicators of the creative and high performing knowledge workplace.

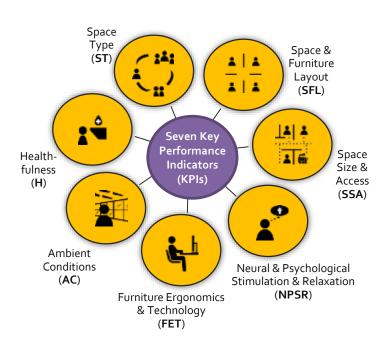
# PART 2: Company Information and Innovation Strategies

It measures innovation strategies and economic growth of a workplace/company.

### PART 3: Innovation Performance of the Company

It examines the innovation performance & activities of a workplace/company in 5 areas.

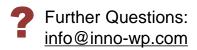
**CAPTIV** measures and analyzes the performance of the 7 Key Performance Indicators (KPIs) of the workplace environment as to how it supports a company's innovation performance and innovation strategies by supporting employee creative performance, health and well-being.



The comprehensiveness of the KPIs is founded on two frameworks developed by Dr. Young Lee: Workplace Design Criteria for *Creativity & Innovation* and Workplace Design Criteria for *Employee Performance, Health & Well-being*.

Based on this model, **CAPTIV** analyzes how the workplace environment supports *employee creative performance*, *health and well-being* to increase *innovation performance* of a company.





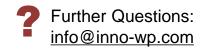
**CAPTIW**<sup>®</sup> is grounded on the 7 KPIs and complete sets of sub-KPIs that solely utilize objective and prescriptive measures to diagnose the workplace environment. These types of measures offer advanced analyses that are quantifiable and actionable for the better performance of the workplace environment.

Space Type (ST)	ST 1. Choice of Work Spaces ST 2. Interaction – Collaboration Work Spaces ST 3. Recharge Spaces	
±   ± ±   ± Space & Furniture Layout (SFL)	SFL 1. Flexibility of primary work spaces SFL 2. Flow and connectivity	
Space Size & Access to Equipment (SSA)	SSA 1. Amount of Spaces SSA 2. Access to Equipment	
Neural & Psychological Stimulation & Relaxation (NPSR)	NPSR 1. Unique/ Fun Atmosphere NPSR 2. Stimulation of Senses NPSR 3. Relaxing Environment	
Furniture Ergonomics & Technology (FET)	FET 1. Furniture Ergonomics FET 2. Technology	
Ambient Conditions (AC)	AC 1. Acoustics AC 2. Visual Comfort AC 3. Thermal Comfort AC 4. Indoor Air Quality	
Healthfulness (H)	H 1. Healthfulness	

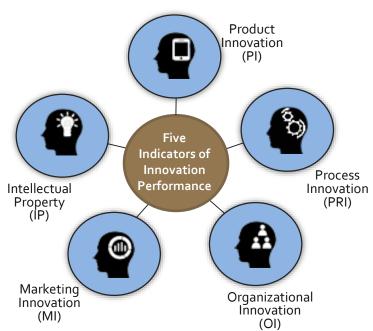
**CAPTIW**<sup>®</sup> encompasses a set of key performance indicators of employee creative performance, health and well-being in the assessment in order to diagnose multi-faceted dimensions of the performance of the workplace environment.

Cognitive & Psychological Function Factors	KPI	Physical Health, Fitness & Comfort Factors
ST 1. Choice of Work Spaces ST 2. Interaction — Collaboration Work Spaces ST 3. Recharge Spaces	ST ST	ST 3. Recharge Spaces
SFL 1. Flexibility SFL 2. Flow and connectivity	<u></u>	
	SSA	SSA 1. Amount of Spaces
NPSR 1. Unique/ Fun Atmosphere NPSR 2. Stimulation of Senses NPSR 3. Relaxing Environment	NPSR	
	FET FET	FET 1. Furniture Ergonomics
AC 1. Acoustics AC 2. Visual Comfort AC 3. Thermal Comfort AC 4. Indoor Air Quality	AC	AC 1. Acoustics AC 2. Visual Comfort AC 3. Thermal Comfort AC 4. Indoor Air Quality
	<b>≜</b> н	H 1. Healthfulness





**CAPTIV** links the performance of the workplace environment to the innovation performance of a company in 5 representative innovation indicators and a set of measures under each innovation indicator.



### **CAPTIW**<sup>©</sup> is Comprehensive:

It offers a most comprehensive set of **key indicators** and **sub-indicator**s to measure the performance of the workplace environment as well as innovation performance of a company.

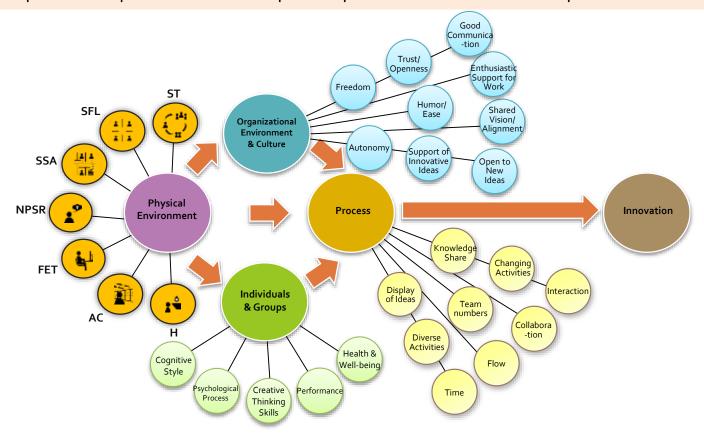
## **CAPTIW<sup>©</sup> is Analytic:**

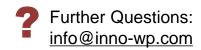
It offers a first of its kind diagnostic platform to analyze the workplace environment in relation to innovation performance and strategies.

#### CAPTIW<sup>©</sup> is Action-Driven:

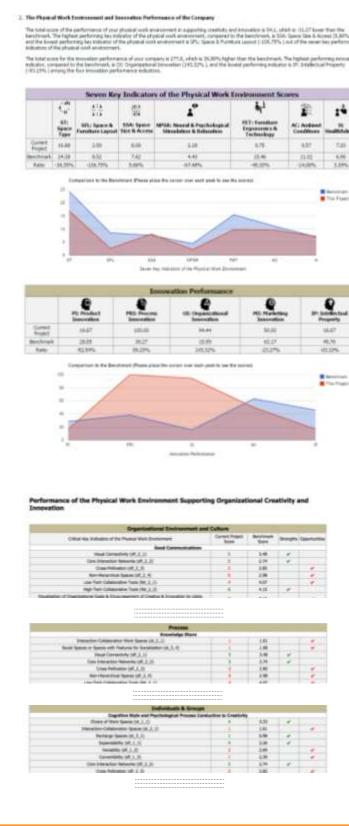
It identifies **specific attributes** of the workplace environment to support organizational pursuits and objectives in innovation strategies unique to each company.

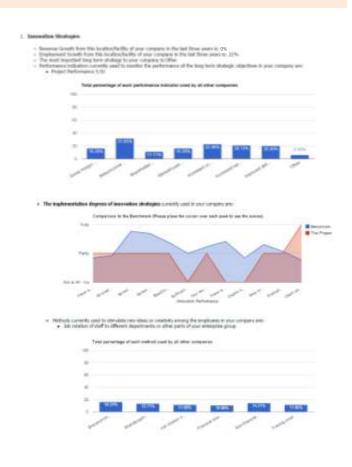
**CAPTIV** identifies specific KPIs and sub-KPIs of the workplace environment to support a company's organizational pursuits in innovation unique to each company. This enables companies to implement further workplace improvements tailored to their specific needs.

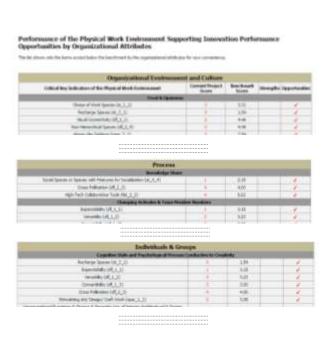




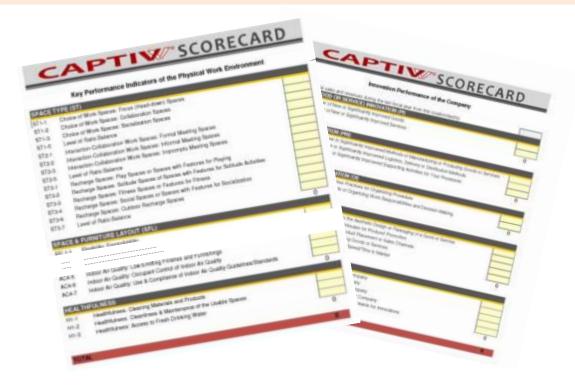
**CAPTIV** generates automated analyses that compare the results of a company to the benchmarks. The first part of the analyses compares the performance of the workplace environment, innovation performance as well as innovation strategies of the company to the benchmarks. The second part of the analyses diagnoses the strengths and weaknesses in each of the KPIs of the company against the benchmarks.







**CAPTIV** analyzes the performance of the workplace environment in a unique scoring system. The scores in 7 KPIs are calculated and, then, weighted by the impact/ significance in achieving creative and innovative performance by applying a mathematical procedure of the Analytic Hierarchy Process that prioritizes criticality among the KPIs.



**CAPTIV** can be used in 6 major ways to evaluate the performance of the workplace environment and to develop strategies for future projects and upgrades in order to enhance the performance of the workplace environment.

#### 1. Benchmark Assessment

To compare the performance of the existing workspace against the CAPTIW<sup>®</sup> benchmark



#### 2. Internal Parallel Assessment

To compare the performance between multiple existing workspaces for the internal benchmark



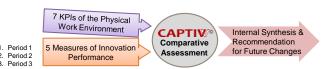
#### 3. Composite Assessment

To compare the performance between multiple existing workspaces against the CAPTIW<sup>®</sup> benchmark



### 4. Time Laps Assessment

➤ To monitor the performance of the existing workspace against innovation performance overtime



#### 5. Dynamic Time Laps Assessment

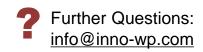
➤ To Monitor the performance of changes in workspace against innovation performance concurrently overtime



#### 6. 'What if' Simulation Assessment

➤ To Simulate the performance of the existing workplace environment against innovation performance





# Young S. Lee, Ph.D., LEED AP, NCIDQ Director, Innovative Workplace Institute

Dr. Lee is the project lead of CAPTIW<sup>©</sup>, Online Benchmark and Evaluation Tool for Knowledge Workplace. Trained in Interior Architecture and Design for two decades, her expertise resides in the impact of indoor environmental quality (IEQ) on occupant performance; spatial and design attributes of the innovative workplace affecting the organizational bottom line; and sustainable design attributes and occupant performance, health, and well-being.



The groundwork of her decad-elong research in two areas became the foundation of CAPTIW<sup>©</sup>: Workplace Design Criteria for Creativity & Innovation and Workplace Design Criteria for Employee Performance, Health & Well-being. Bridging research, design and consulting experience, Dr. Lee has created CAPTIW<sup>©</sup>, one of the most innovative and comprehensive evaluation tools for the 21<sup>st</sup> century workplace, connecting organization innovation performance to the performance of the workplace environment. The importance and quality of her research has frequently been recognized by a variety of peer groups. This has been acknowledged through: best journal article award, selection of the most read articles, and citations of her work by the practice community.

Dr. Lee has published numerous peer-reviewed articles and has also been invited at various international and national conferences. Her research has been published in such reputable journals as Indoor and Built Environment, Building and Environment, the Journal of Green Building, and Facilities. She has served on the editorial board of the internationally renounced journal, Indoor and Built Environment as well as the International Conference on Sustainability, Technology, and Education for many years. She is a Leadership in Energy and Environmental Design Accredited Professional and a certified US Green Building Council Green Classroom Professional.



