

Broadening the Perspective of Technology in Architectural Practice

October 19, 2012 | Stanford, CA
Stanford University Center for Integrated Facility Engineering

Technology for All

Alejandro Ogata, AIA
Project Designer
HNTB



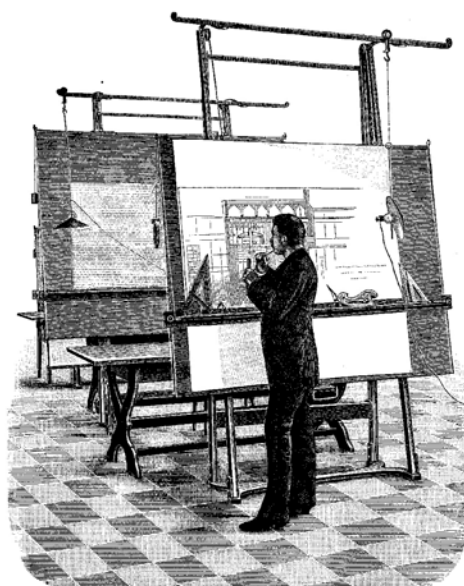
Broadening the Perspective of Technology in Architectural Practice is registered with AIA CES.

Online + Components: **TAP101912W**

Stanford CIFE Live Event: **TAP101912S**

Questions? Contact tap@aia.org

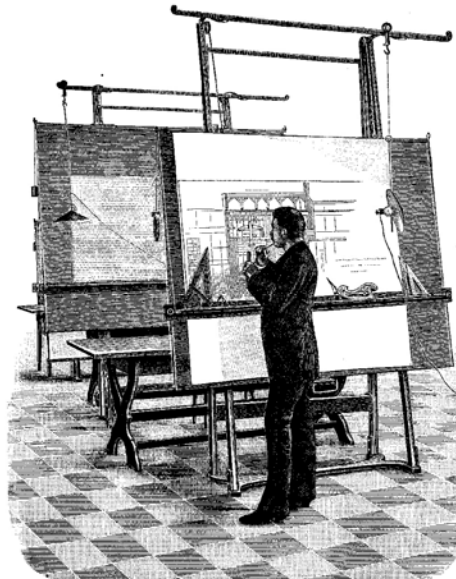






RAISE THE CEILING

- Energy Analysis
- Generative Design
- Downstream modeling



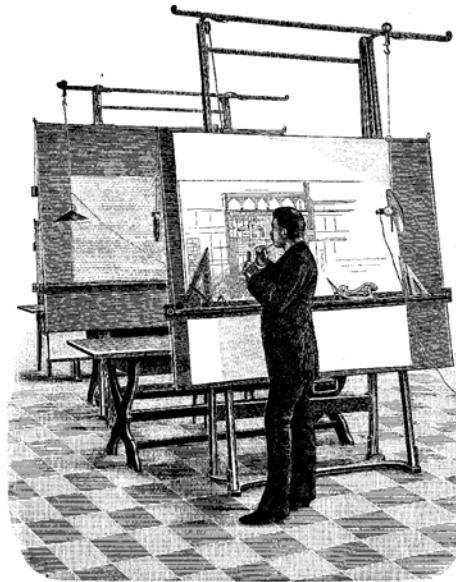
RAISE THE FLOOR

- Sketchup
- BIM Standards
- Interoperability

↑ ↑ ↑ ↑
RAISE THE CEILING

-Mobile Technology
-Social Media
-Cloud Storage

BROADEN THE
PERSPECTIVE



BROADEN THE
PERSPECTIVE

-Big Data
-Infinite Computing
-Gigabit connectivity

↑ ↑ ↑ ↑
RAISE THE FLOOR

BY HOURS

COORDINATE

DESIGN

DOCUMENT

MARKET
OPERATE

MANAGE



**DESIGN,
DOCUMENTATION &
COORDINATION**

**MARKET, OPERATE &
MANAGE**

BY HOURS

COORDINATE

DESIGN

DOCUMENT

MARKET
OPERATE

MANAGE



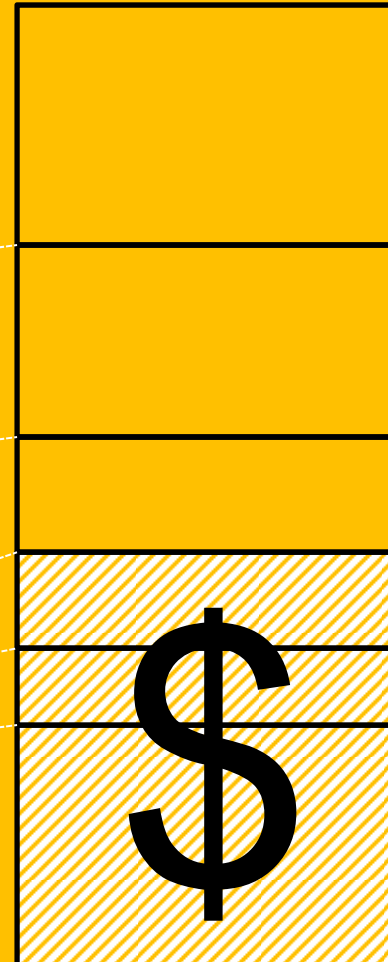
COORDINATE

DESIGN

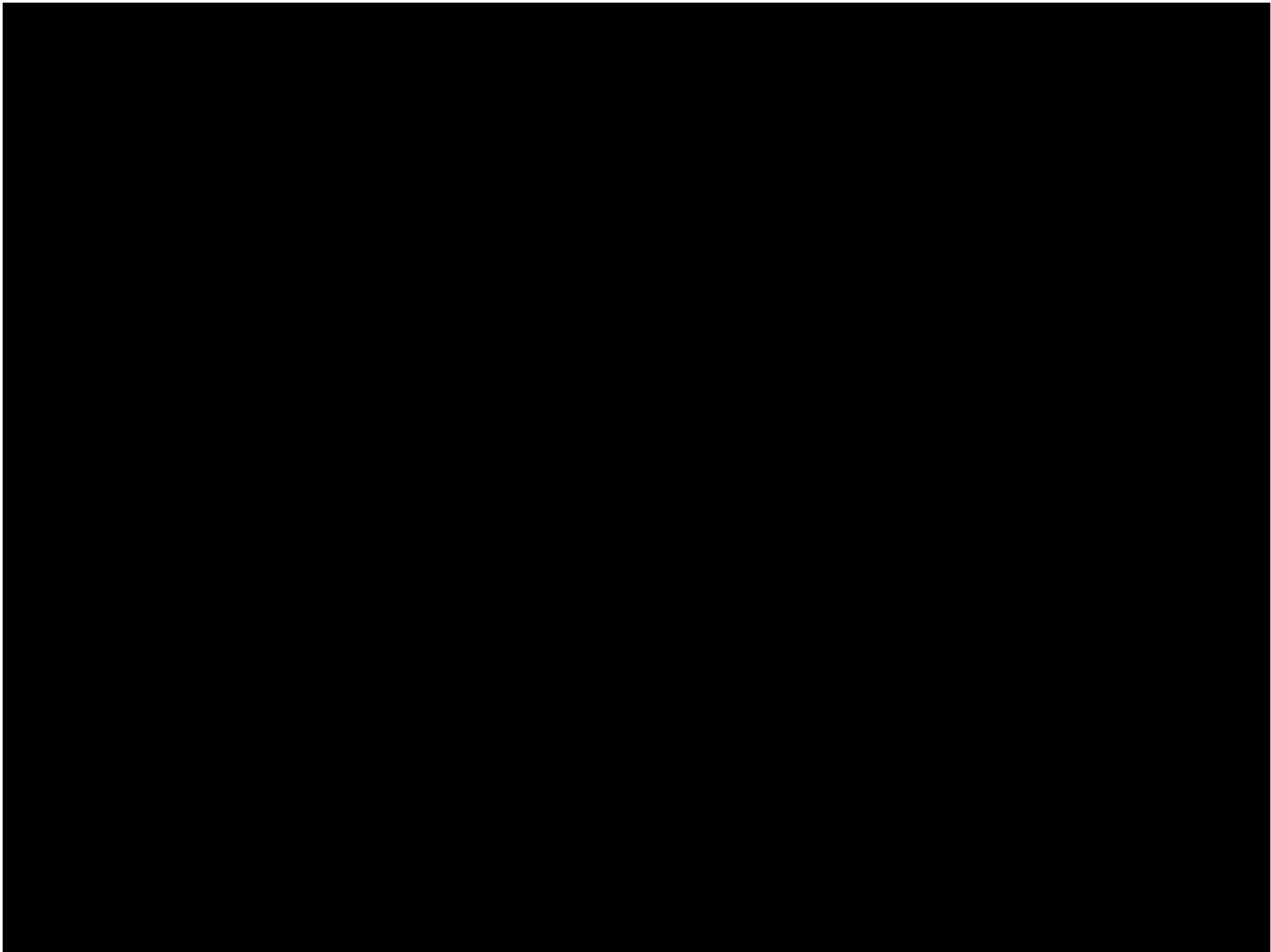
DOCUMENT

MARKET
OPERATE

MANAGE



BY DOLLARS



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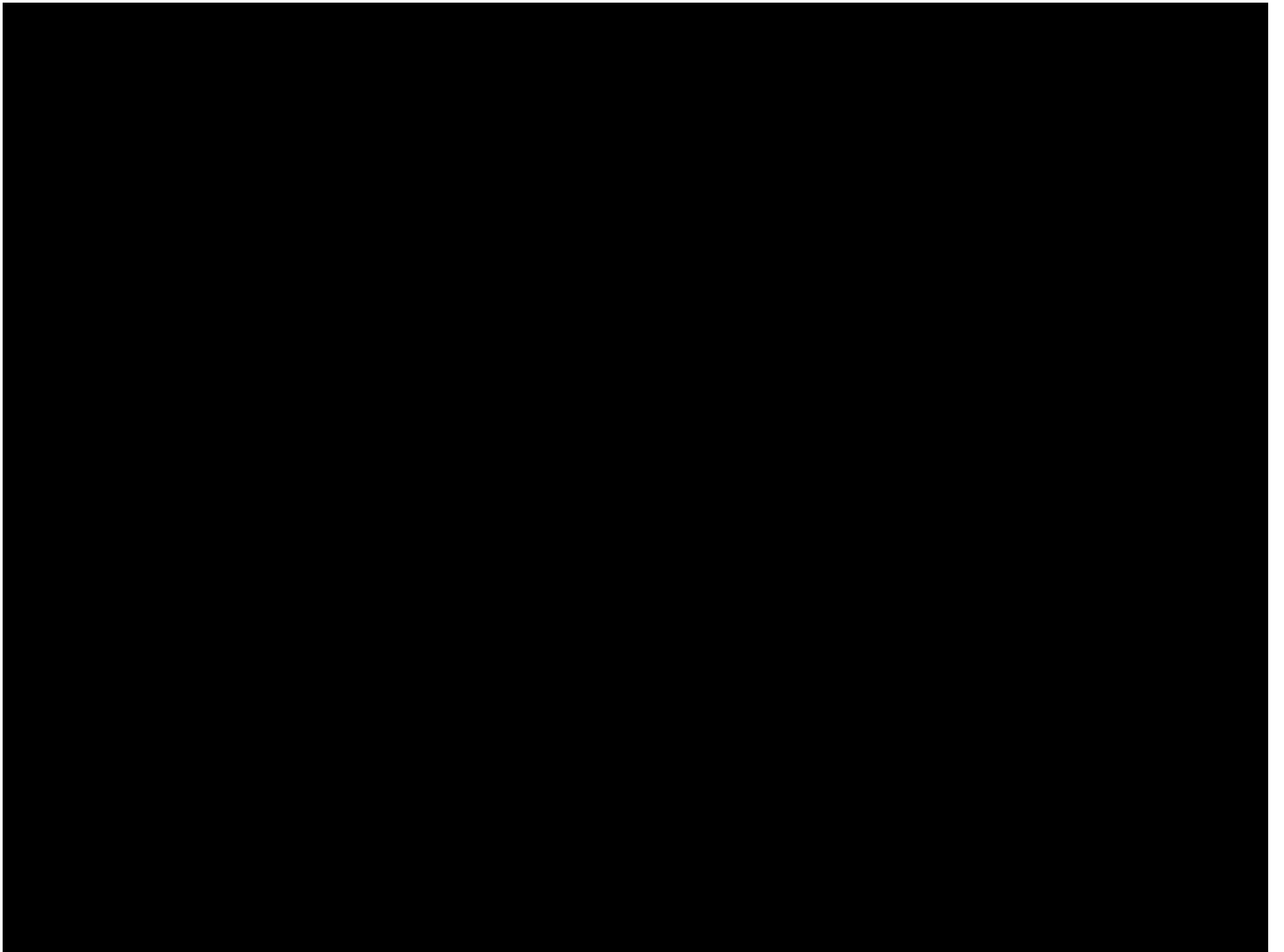
What Is This

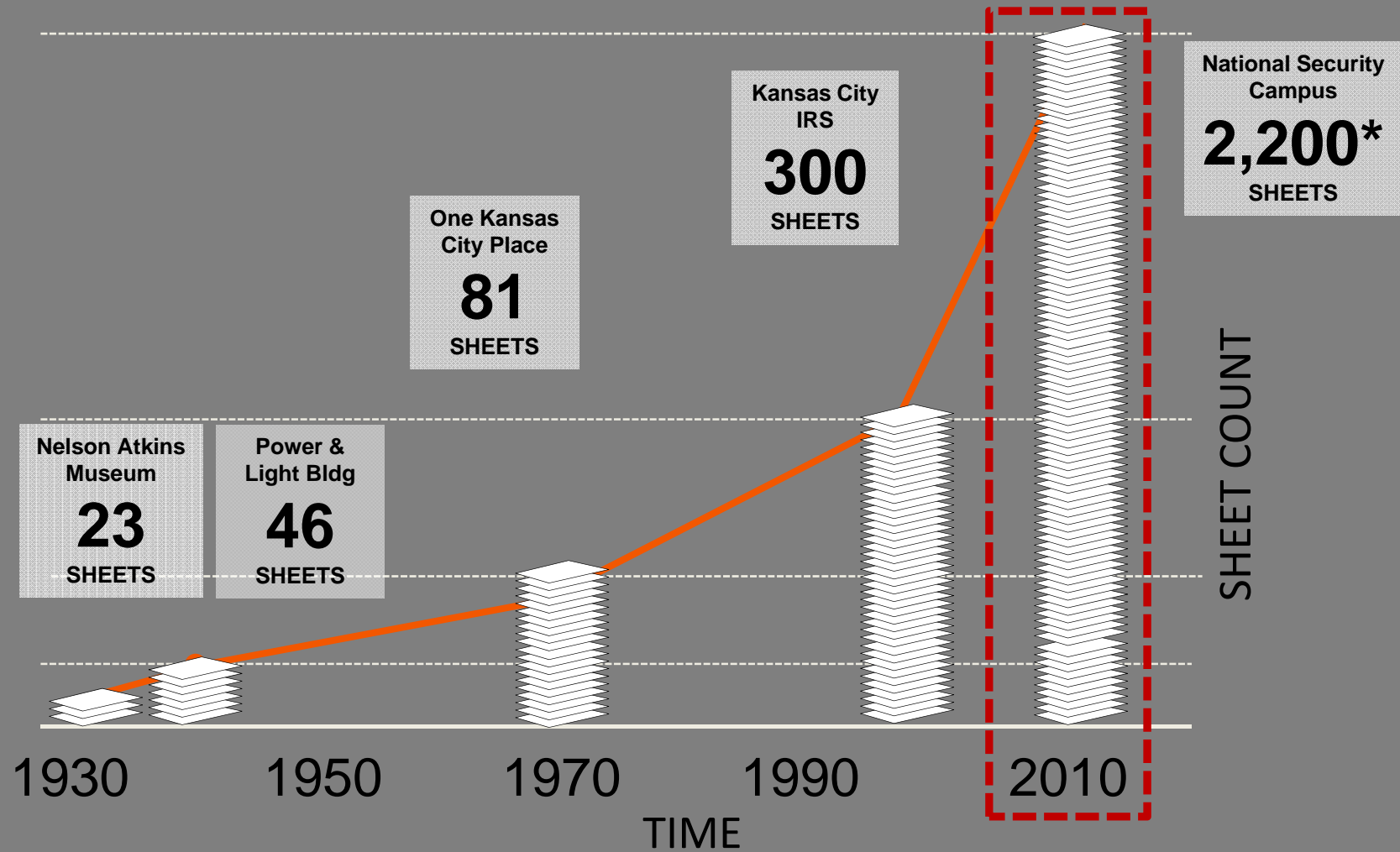
HNTB Project History

Job Number	Project Title	Project Magnitude	HNTB Advantage	Service Line	Status	Primary Client	Owning Client	Owning Client Type	Current Project Manager	Total Hours	First Charge Date	Last Chg Dat
50272	AR1G OK City Convention Center	Mega (\$5M+)	N	General Architecture	AW	OKLAHOMA CITY OF	OKLAHOMA CITY OF	LG	J. Todd Achelpohl	327	6/11/2012	9/2/12
59495	AR4D Broncos Practice Facility	Strategic (< \$1M)	N	Sports/Public Assembly	AW	MA MORTENSON	DENVER BRONCOS	PA	Lanson B. Nichols	98	8/6/2012	8/30/12
59095	C/C/A AR1G HBG CC (SanAntonio)	Mega (\$5M+)	Y	General Architecture	AW	TURNER CONSTRUCTION COMPANY	SAN ANTONIO TEXAS CITY OF	LG	Christopher Don Ross	103	7/16/2012	8/1/12
53987	AR5B SFO Intl A/P Term 1 D/B	Mega (\$5M+)	N	Aviation	AW	SAN FRANCISCO CALIFORNIA CITY OF	SAN FRANCISCO CALIFORNIA CITY OF	LG	Paul Kim	408	4/13/2011	6/19/11
49104	ARCHITECTURE PROF DVLP	Not Applicable	N	GENERAL	AW	HNTB ARCHITECTURE	HNTB ARCHITECTURE	CR	Michael W. Wright	444	8/20/2009	6/1/11
46149	AR3A NNSA DB HONEYWELL BLDHQ	Mega (\$5M+)	N	General Architecture	AW	CENTERPOINT ZIMMER LLC	GENERAL SERVICES ADMINISTRATION	FG	Michael W. Oldham	3044	1/9/2008	6/1/11
56497	AR5B EWR Terminal A	Mega (\$5M+)	N	Aviation	AW	PORT AUTHORITY NY & NJ	PORT AUTHORITY NY & NJ	QG	Thomas Richard Rossbach	151	2/16/2012	3/30/12
57832	C/C AR3A Ft Carson Hnt Hngar	Mini-Mega (\$1M-\$4.9M)	N	General Architecture	AW	KIEWIT	US ARMY CORPS OF ENGINEERS	FG	Kirk Von Speeth	230	2/4/2012	3/1/12
55772	MASSDOT - SOUTH STATION/USPS	Mega (\$5M+)	N	Rail	AW	MASSACHUSETTS STATE OF (INCL DOT)	MASSACHUSETTS STATE OF (INCL DOT)	SG	Michael J. McNnis	139	10/24/2011	12/2/11
56505	HNTB Arch Contractor Relations	Not Applicable	N	GENERAL	AW	HNTB ARCHITECTURE	HNTB ARCHITECTURE	CR	Tamara Grimm	154	12/15/2010	10/3/11
49675	AR4D OAKLAND RAIDERS	Strategic (< \$1M)	N	General Architecture	AW	OAKLAND RAIDERS FOOTBALL CLUB	OAKLAND RAIDERS FOOTBALL CLUB	CR	Joseph John Diesko	108	6/21/2011	7/1/11
55112	C/C/A AR1G San Jose CC Expan	Mini-Mega (\$1M-\$4.9M)	Y	General Architecture	CL	TURNER CONSTRUCTION COMPANY	SAN JOSE CALIFORNIA CITY OF	LG	Michael K. Fountain	286	7/1/2010	9/2/11
48041	AR5B NEWARK TERMINAL A EXPNSN	Mega (\$5M+)	N	General Architecture	CL	PORT AUTHORITY NY & NJ	PORT AUTHORITY NY & NJ	QG	Scott E. Steckler	187	3/2/2010	5/1/11
48749	AR1G SAN DIEGO CONVENTION CTR	Mega (\$5M+)	N	General Architecture	CL	TUCKER SADLER NOBLE CASTRO ARC INC	SAN DIEGO CONVENTION CENTER CORP	CR	J. Todd Achelpohl	159	10/21/2009	12/2/11
45010	Project Mgmt DDOT Mega Project	Mega (\$5M+)	N	Transportation	AW	DC DEPARTMENT OF TRANSPORTATION	DC DEPARTMENT OF TRANSPORTATION	LG	Peter C. McDonough	98	2/24/2009	5/2/11
38224	AR1G CLEVELAND CONVENTION CTR	Unknown	N	Sports/Public Assembly	CL	ERIEVIEW LAND COMPANY	CLEVELAND OHIO CITY OF	LG	Bane Landon Gaiser	377	1/31/2006	5/8/11

MHC Data Center Database 11.11.11410pm.xls [Compatibility Mode] - Microsoft Excel									
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AH1789 W H Architects Inc									
	Q	R	Z	AB	AH				
1772		Private	Des Moines	IA	RDG Planning & Design				
1773		Local Government	San Bernardino	CA					
1774		State	Ann Arbor	MI	Integrated Design Solutions				
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1776		State	Ann Arbor	MI	Integrated Design Solutions				
1777		Private	Phoenix	AZ	Butler Design Group				
1778		Private	Phoenix	AZ	Butler Design Group				
1779		State	Boulder	CO					
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1781		Private	PRINEVILLE	OR	Sheehan Partners				
1782		Private	PRINEVILLE	OR	Sheehan Partners				
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1789		Private	Roseburg	OR	W H Architects Inc				
1790		Local Government	Milwaukee	WI	Continuum Architects & Planners SC				
1791		Local Government	Milwaukee	WI	Architect	Milwaukee	WI	Zoe Engineering LLC	
1792		Local Government	Milwaukee	WI	Architect	Milwaukee	WI	Grumman/Butkus Associates	
1793		Local Government	Milwaukee	WI	Architect	Milwaukee	WI	Grumman/Butkus Associates	
1794		Military	OFFUTT AFB	NE				U S Dept of Air Force (55th Contracting Squadron)	
1795	Prevailing Wage.	Local Government	Holyoke	MA				City of Holyoke Gas & Electric Dept	
1796		Private	NATICK	MA	Signer Harris Assoc	Architect	BOSTON	MA	RDK Engineers
1797		Private	NATICK	MA	ADD Inc	Architect	Boston	MA	R G Vanderweil Engineers
1798		Private	NATICK	MA	ADD Inc	Architect	Boston	MA	Goldstein-Milano
1799		Private	NATICK	MA	ADD Inc	Architect	Boston	MA	RDK Engineers
1800		Private	NATICK	MA	ADD Inc	Architect	Boston	MA	RDK Engineers
1801		Private	NATICK	MA	Signer Harris Assoc	Architect	BOSTON	MA	R G Vanderweil Engineers
1802		Private	NATICK	MA	Signer Harris Assoc	Architect	BOSTON	MA	Goldstein-Milano
1803		Private	NATICK	MA	Signer Harris Assoc	Architect	BOSTON	MA	RDK Engineers
1804		Local Government	Modesto	CA	Timothy P Huff & Associates Inc	Architect	Modesto	CA	
1805		Local Government	MOUNTAIN HOUSE	CA	Nichols Melburg & Rossetto	Architect	Redding	CA	PACE Engineering, Inc
1806		Local Government	MOUNTAIN HOUSE	CA	Nichols Melburg & Rossetto	Architect	Redding	CA	M E Systems Engineering
1807		Local Government	MOUNTAIN HOUSE	CA	Nichols Melburg & Rossetto	Architect	Redding	CA	CBG Carlson Barbee Gibson Inc.
1808		Local Government	MOUNTAIN HOUSE	CA	Nichols Melburg & Rossetto	Architect	Redding	CA	Nichols Melburg & Rossetto
1809		Private	CHICAGO	IL	Chicago Loop Parking LLC	Architect	CHICAGO	IL	







SHEET COUNT

2008

300
SHEETS

2009

900
SHEETS

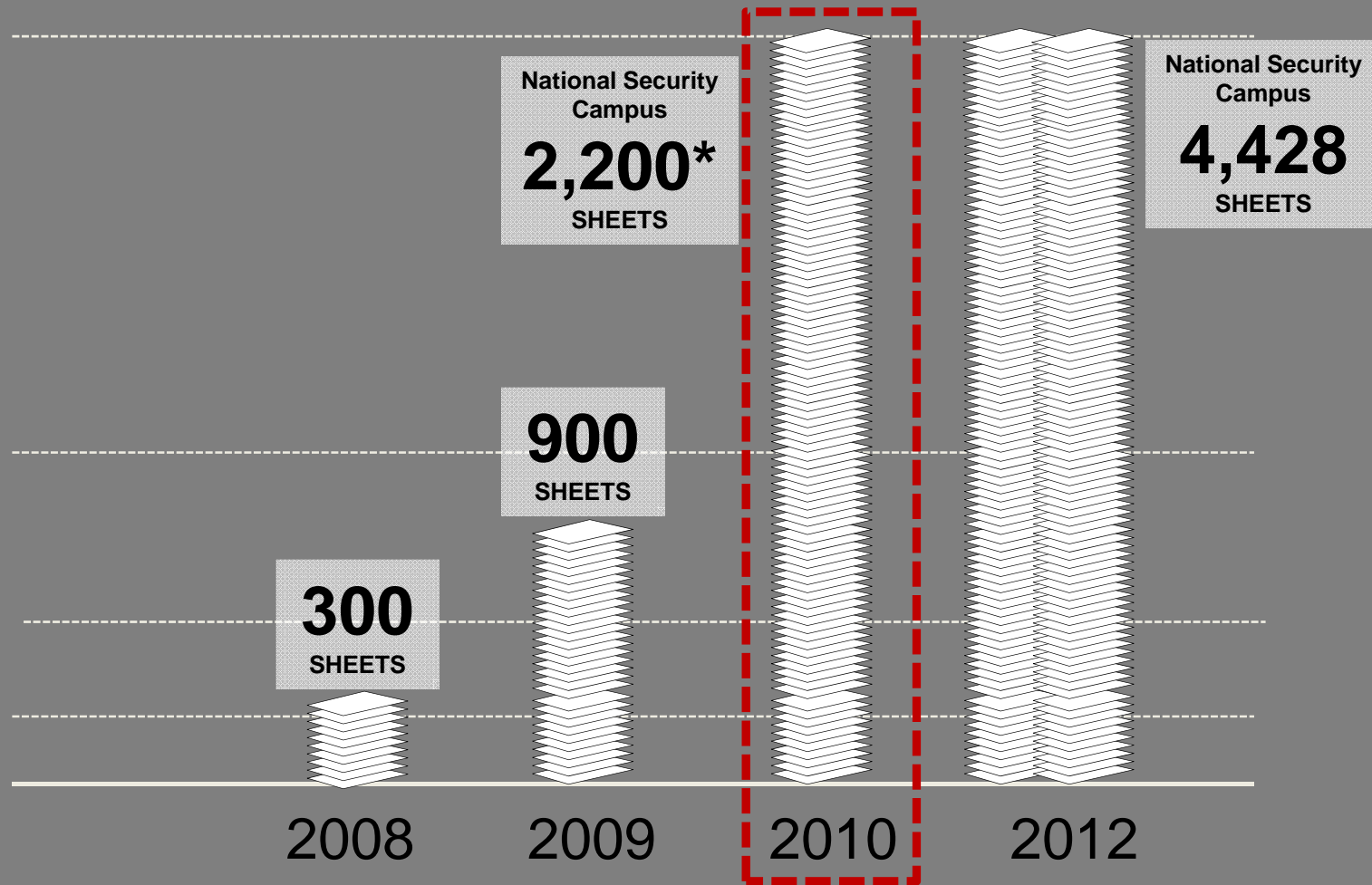
2010

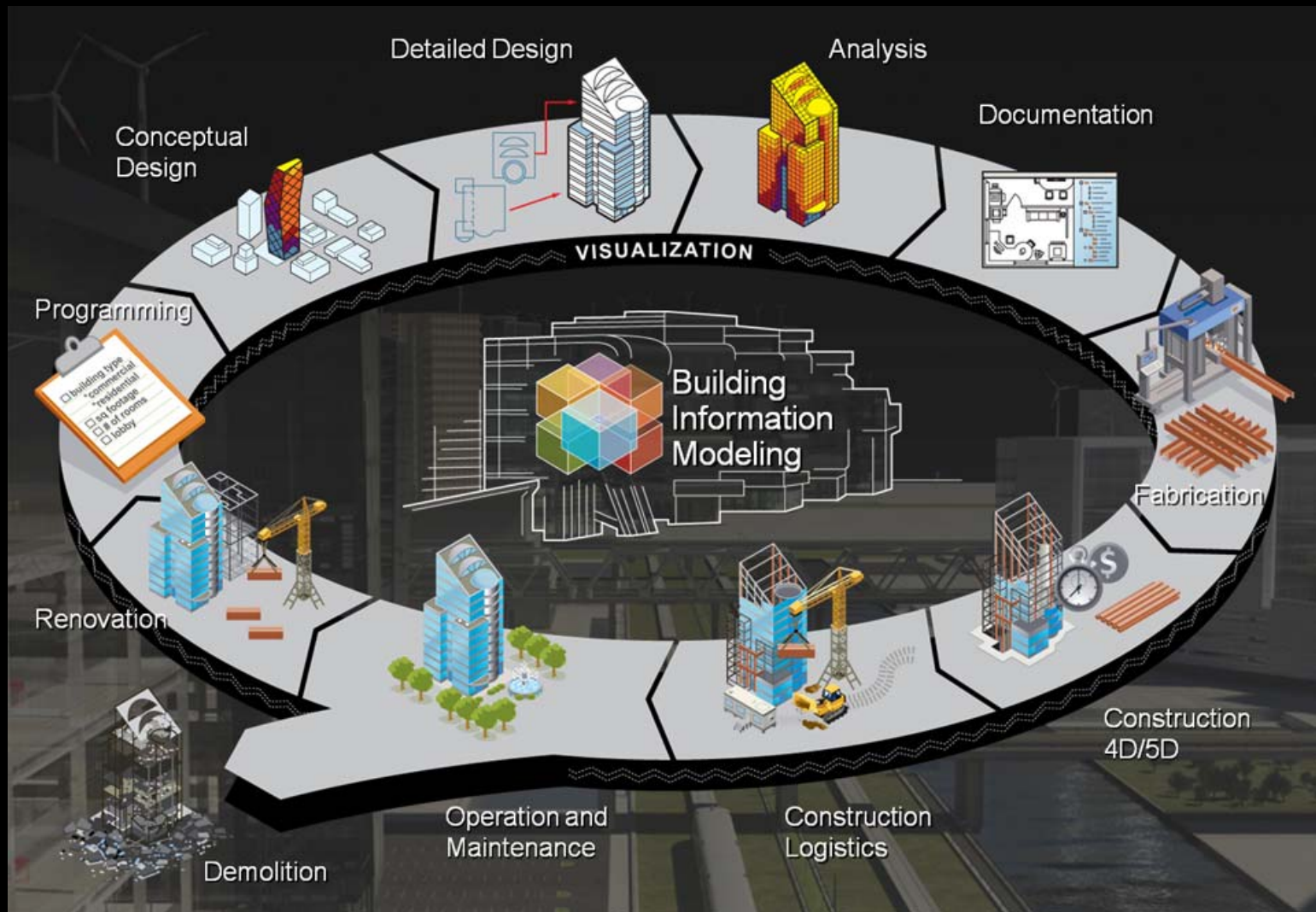
National Security
Campus
2,200*
SHEETS

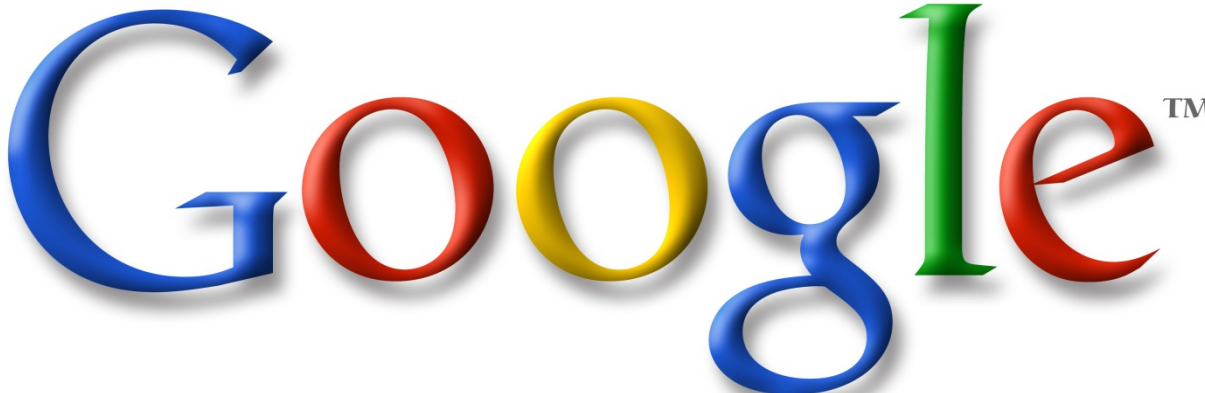
2012

National Security
Campus
4,428
SHEETS

TIME







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