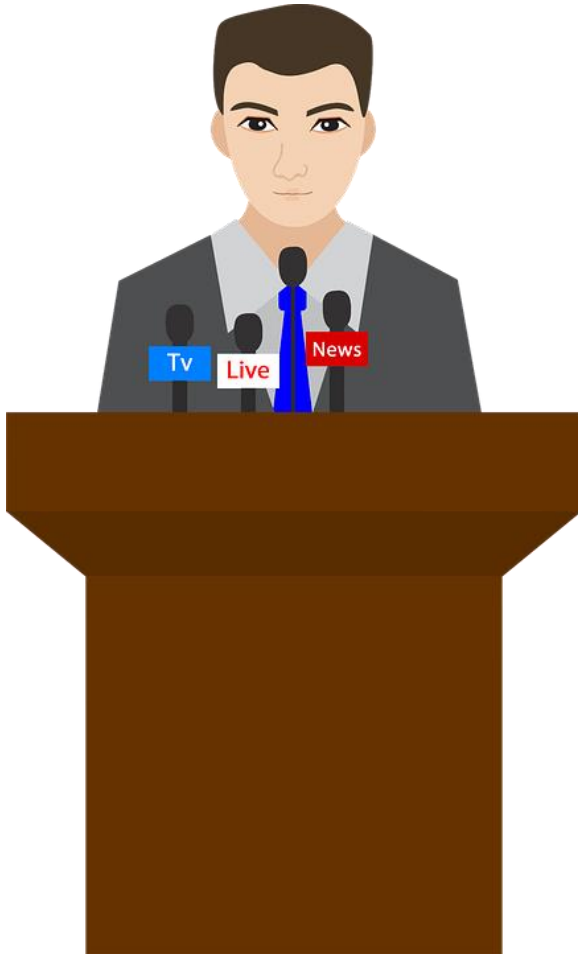


Separating Myth from reality, The Half-Step Method in delay Analysis



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- MSc in Construction Management with BIM, Northumbria University, UK
 - Planning & Scheduling Professional, AACE International
 - Earned Value Professional, AACE International.
 - Consultor de Control de Proyectos
 - Expert Witness en análisis de Atrasos
 - RICS Certified Expert Witness
-

Contemporaneous Periods Analysis (CPA)

Half-Step Method

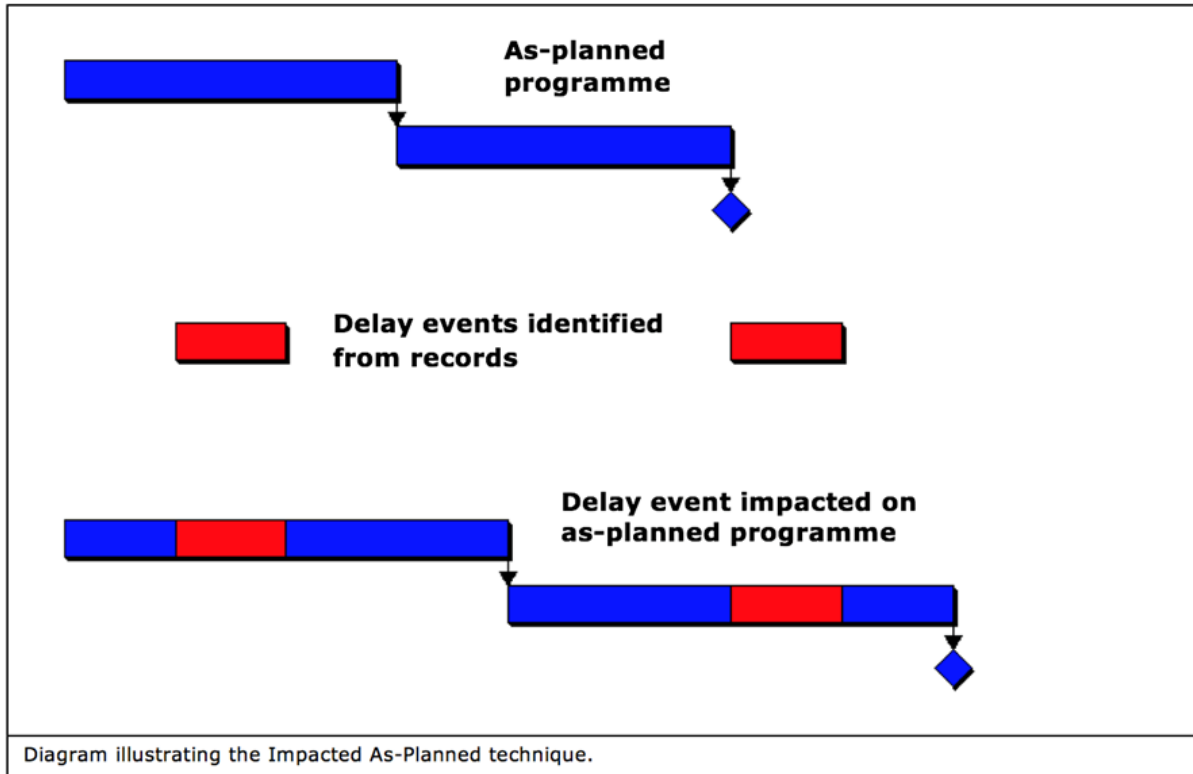
Agenda

- TÉCNICAS RECONOCIDAS EN EL MUNDO
 - LA NECESIDAD DEL CPA
 - LA METODOLOGIA CPA
 - CONCLUSIONES
-

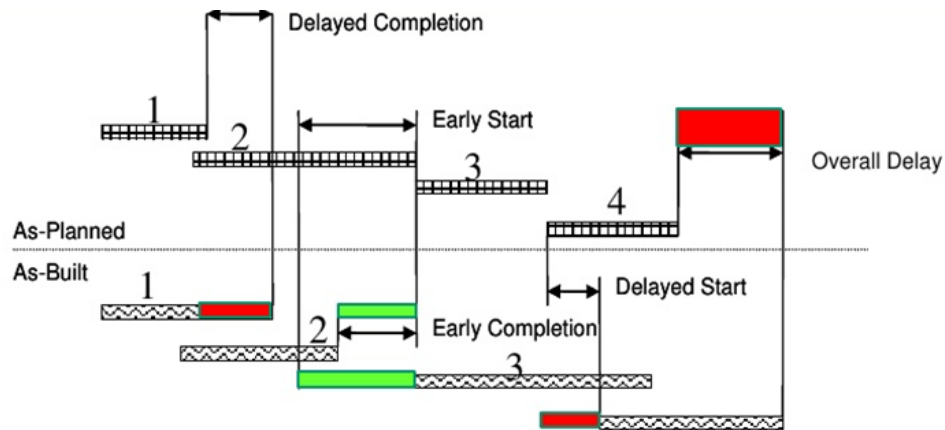
LAS TÉCNICAS “MADRE”

- IMPACTED AS PLANNED
 - AS PLANNED VS AS BUILT
 - COLLAPSED AS BUILT
 - TIME IMPACT ANALYSIS
-

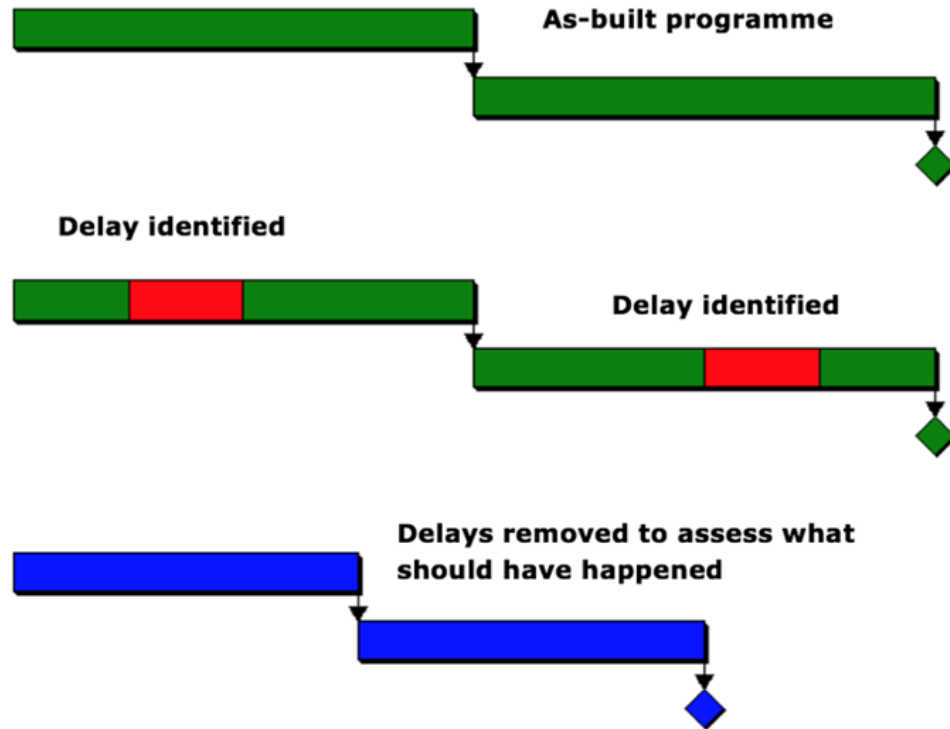
IMPACTED AS PLANNED (IAP)



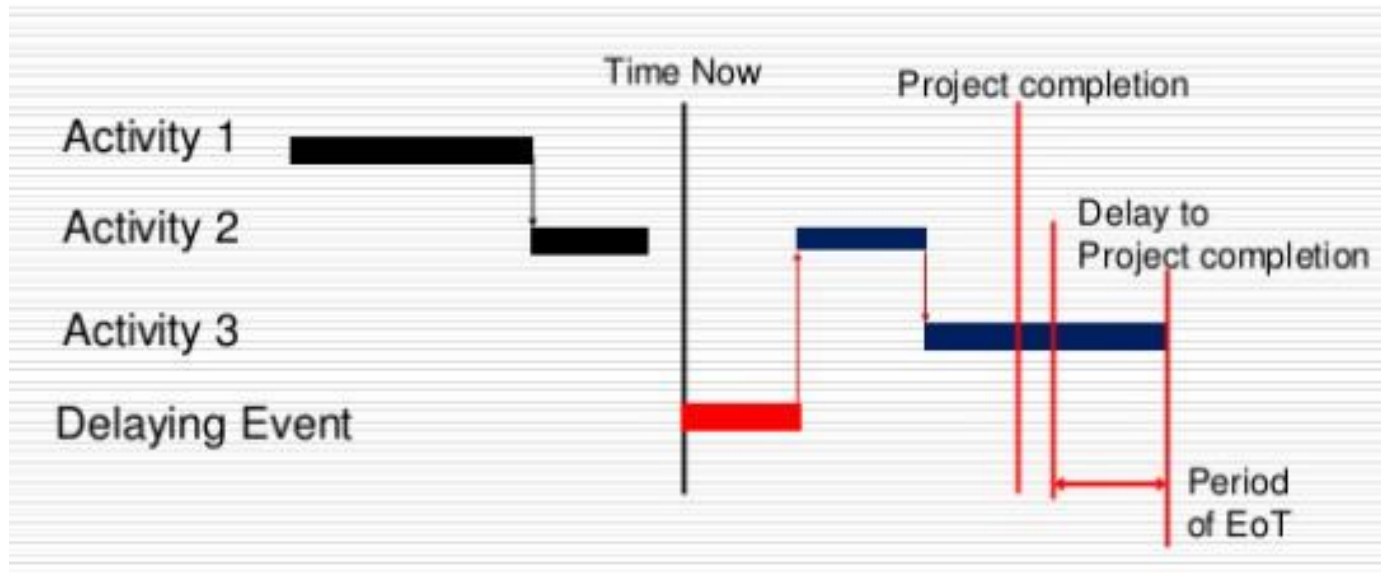
AS PLANNED VS AS BUILT (APAB)



COLLAPSED AS BUILT (CAB)



TIME IMPACT ANALYSIS (TIA)



CONTEMPORANEOUS PERIODS ANALYSIS (CPA)

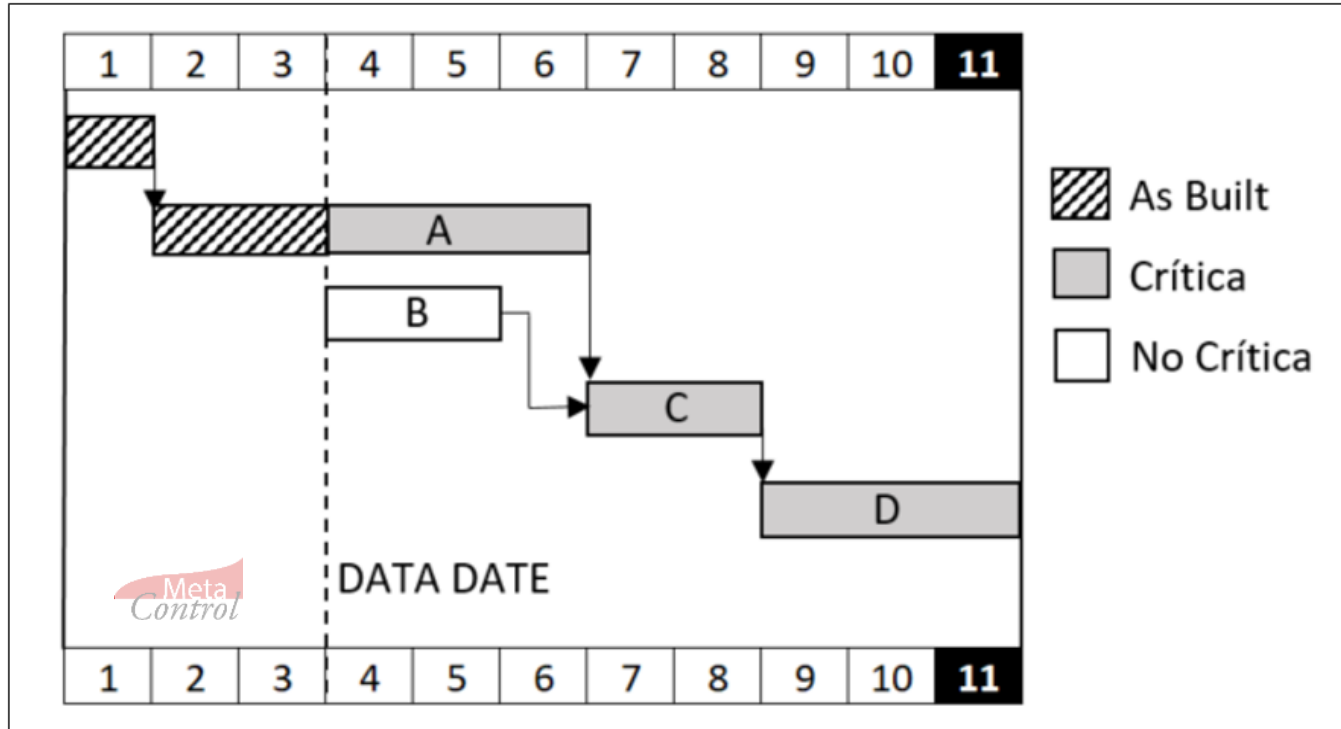
HALF-STEPPED

MÉTODO BIFURCADO

TWO-STEPPED

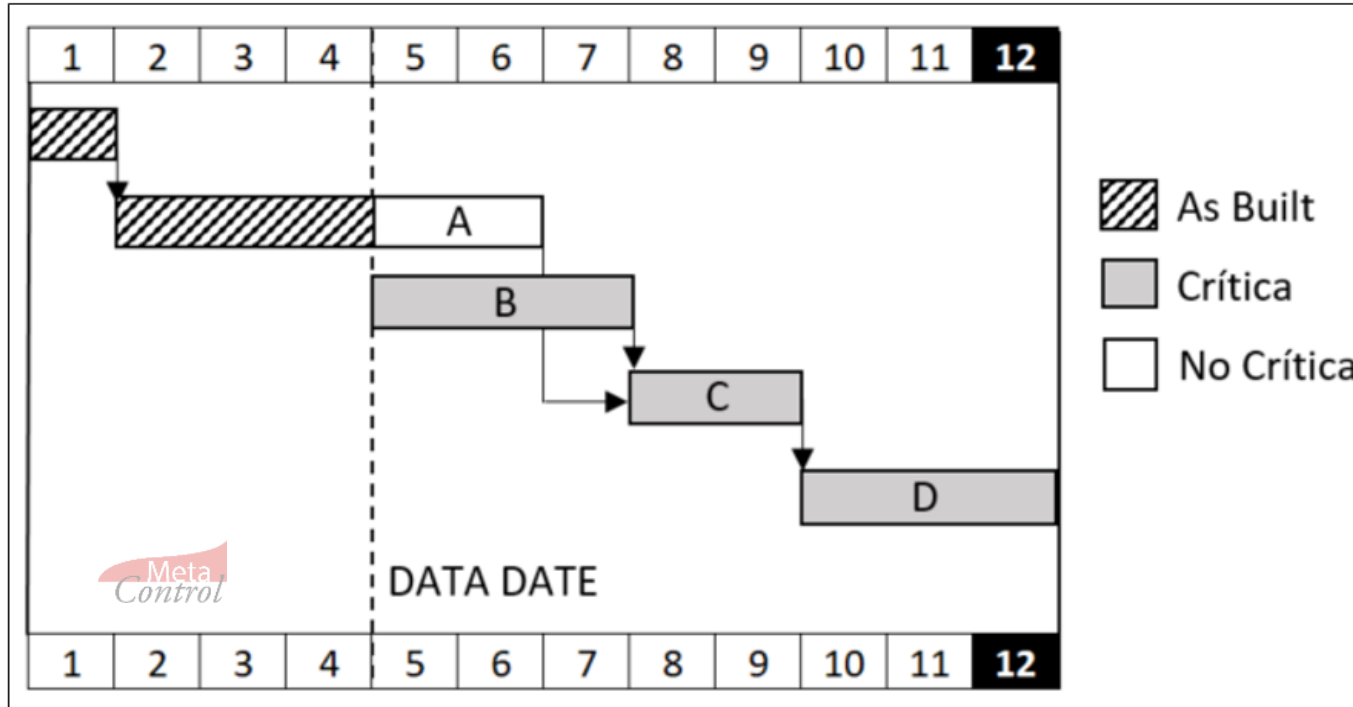
WINDOWS ANALYSIS

LA NECESIDAD DEL CPA



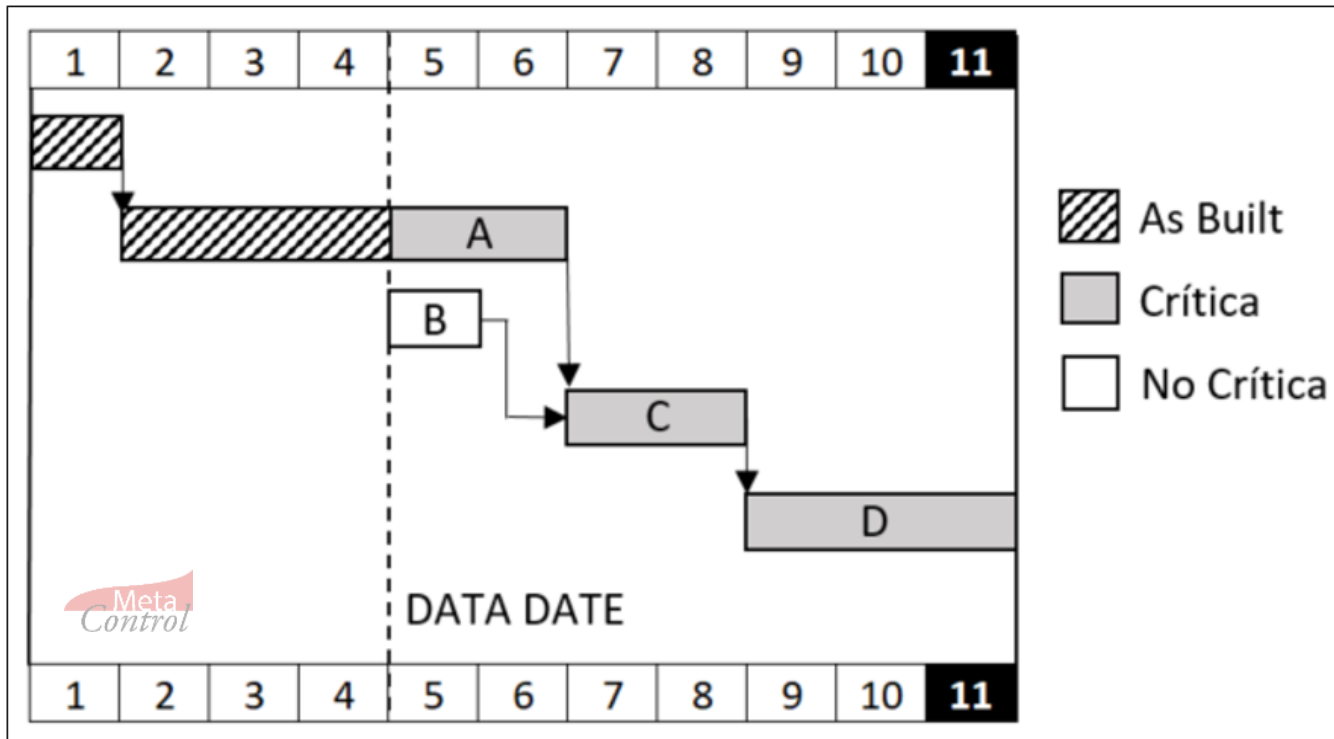
UPDATE 01

LA NECESIDAD DEL CPA



UPDATE 02 (PREVIO)

LA NECESIDAD DEL CPA



UPDATE 02 (FINAL)

EL MÉTODO CPA - AACE

Taxonomy	1	RETROSPECTIVE														
	2	OBSERVATIONAL							MODELED							
	3	Static Logic			Dynamic Logic				Additive				Subtractive			
	4	3.1 Gross	3.2 Periodic		Contemporaneous Updates (3.3 As-Is or 3.4 Split)		3.5 Modified / Reconstructed Updates		3.6 Single Base ²		3.7 Multi Base ¹		3.8 Single Simulation		3.9 Multi Simulation ¹	
	5		Fixed Periods	Variable Windows	All Periods	Grouped Periods	Fixed Periods	Variable Windows	Global Insertion	Stepped Insertion	Fixed Periods	Variable Windows or Grouped	Global Extraction	Stepped Extraction	Fixed Periods	Stepped Extraction
Common Names		As- Planned vs As-Built	Window Analysis		Contemporaneous Period Analysis, Time Impact Analysis, Window	Contemporaneous Period Analysis, Time Impact Analysis, Window Analysis	Contemporaneous Period Analysis, Time Impact Analysis	Window Analysis, Time Impact Analysis	Impacted As Planned, What-If	Time Impact Analysis, Impacted As- Planned	Time Impact Analysis	Window Analysis, Impacted As- Planned	Collapsed As- Built	Time Impact Analysis, Collapsed As- Built	Time Impact Analysis, Collapsed As- Built	Time Impact Analysis, Window Analysis, Collapsed As- Built

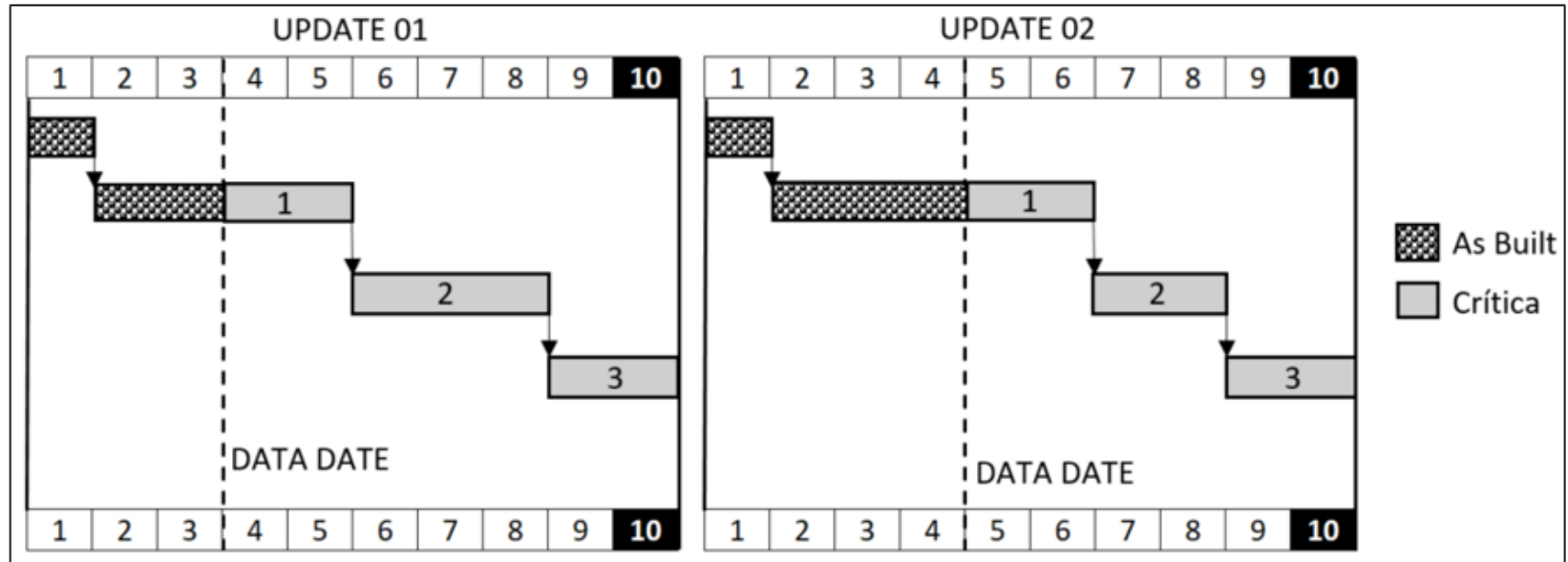
EL MÉTODO CPA - SCL

Method of Analysis	Analysis Type	Critical Path Determined	Delay Impact Determined
Impacted As-Planned Analysis	Cause & Effect	Prospectively	Prospectively
Time Impact Analysis	Cause & Effect	Contemporaneously	Prospectively
Time Slice Windows Analysis	Effect & Cause	Contemporaneously	Retrospectively

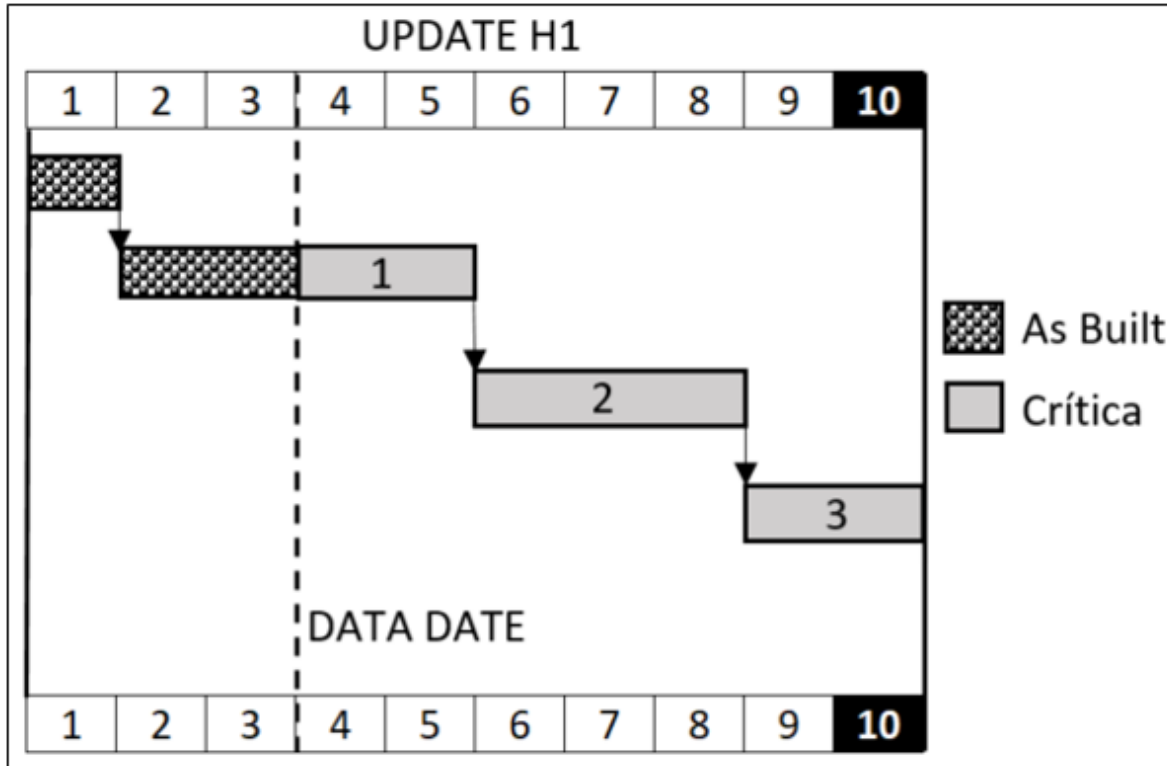
EL MÉTODO CPA- QUE SE NECESITA?

- UPDATES, MIENTRAS MAS SEGUIDOS, MEJOR

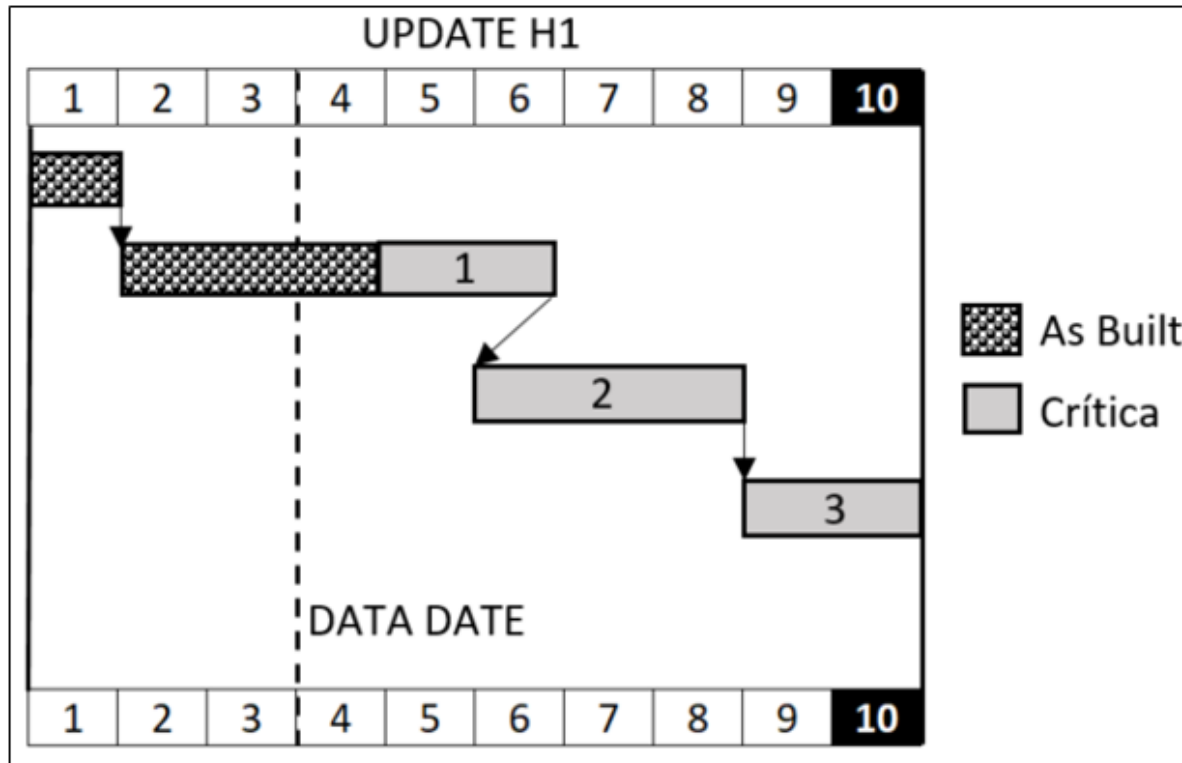
EL MÉTODO CPA



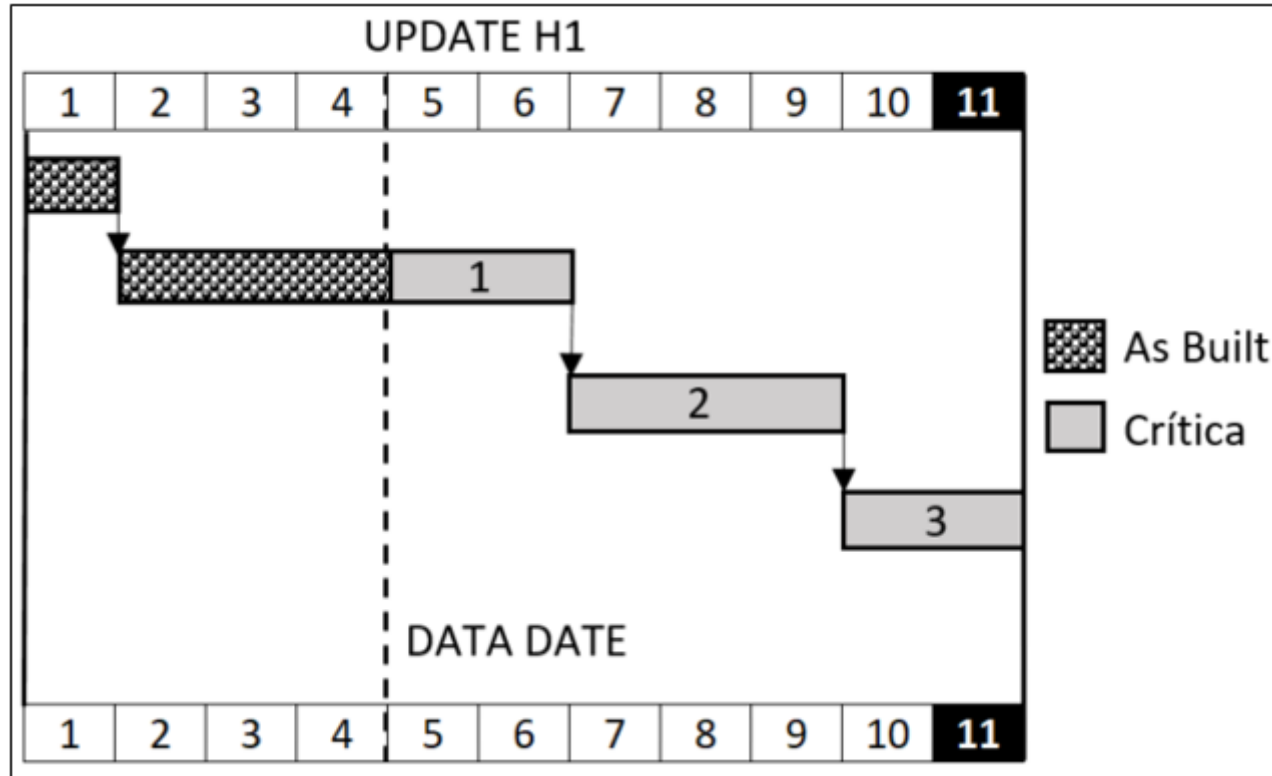
PASO 1: RENOMBRE EL UPDATE 01 X H1



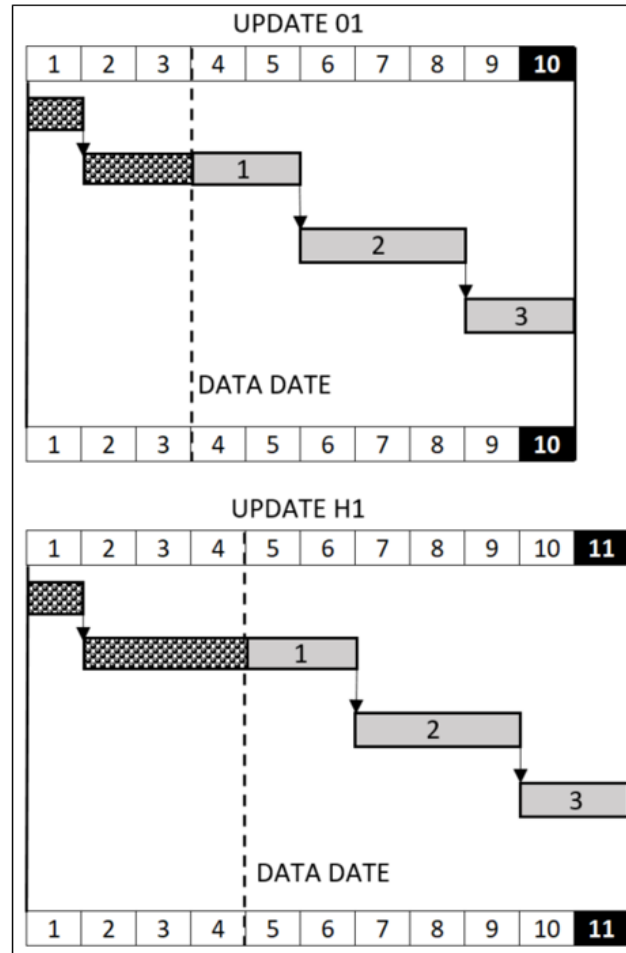
PASO 2: ACTUALICE H1 CON EL PROGRESO DE 02



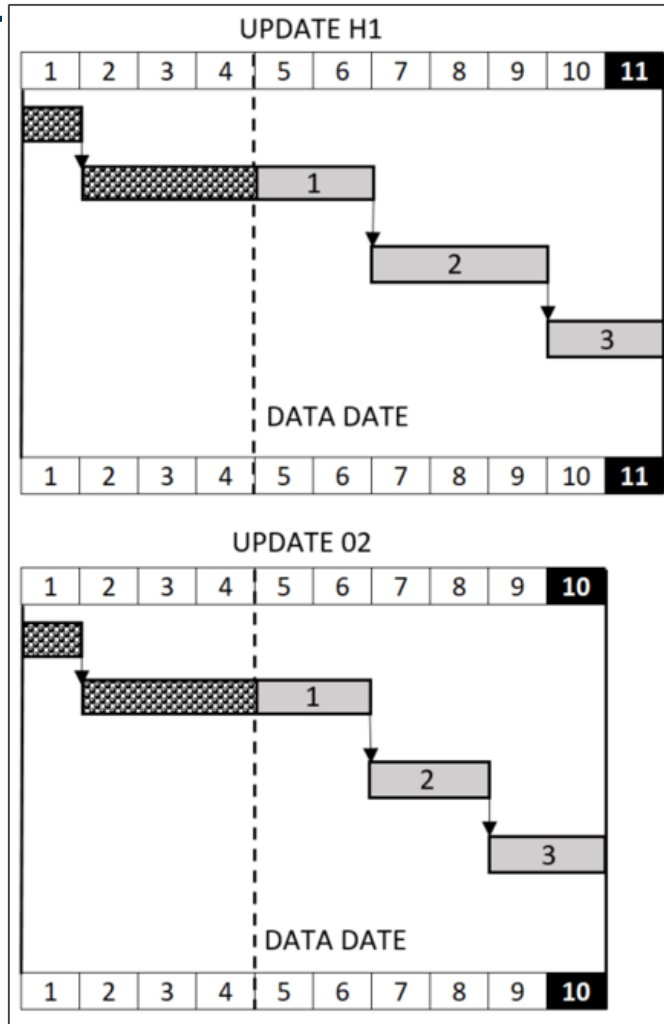
PASO 3: RECALCULE H1 CON FECHA 02



PASO 4: ANALISIS 01 vs H1

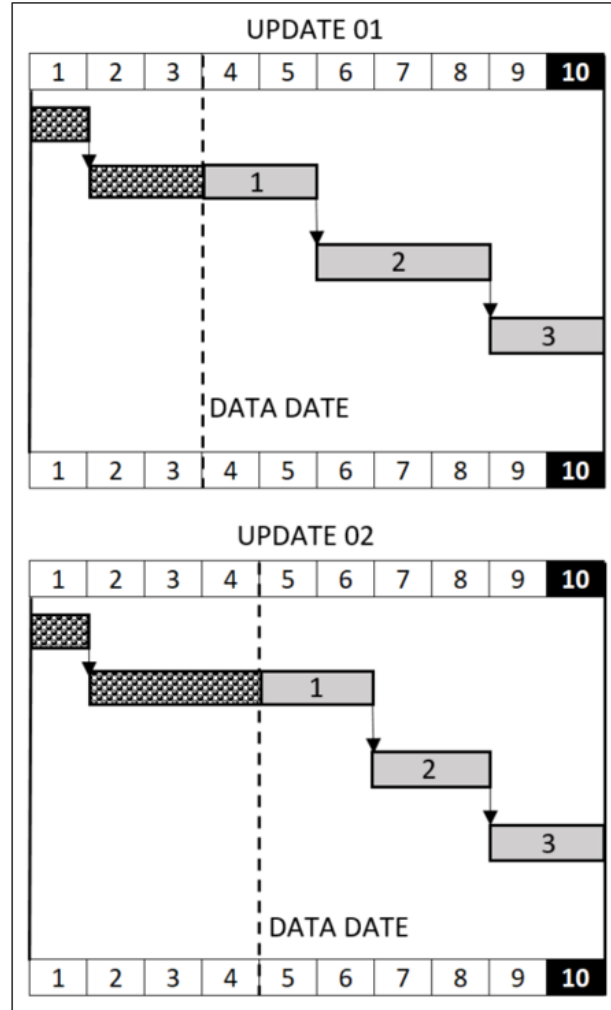


PASO 5: ANALISIS H1 vs 02



ITEM	W1	W2	W3
Variación por Progreso	1 semana		
Variación por Ajustes	- 1 semana		
TOTAL	0 semanas		
Variación de Updates	0 semanas		

PASO 6: COMPROBACIÓN 01 vs 02



LA ACTUALIZACIÓN DE PROGRESO INCLUYE:

- Fechas de Inicio Reales
 - Fechas de Fin Reales
 - % de Avance
 - Duración Remanente
-

ELEMENTOS QUE NO SON CONSIDERADOS COMO REPORTE DE PROGRESO INCLUYEN:

- Adición o borrado de actividades
 - Corte de tareas en nuevos Activity Ids
 - Adición o borrado de nueva lógica
 - Cambios en los valores de lags
 - Adición, borrado o cambios en las restricciones
 - Cambios en la duración original
 - Incremento del RD no debido al progreso
 - Cambios en calendarios
 - Cambios en Feriados pre-existentes
-

ES UN PROCEDIMIENTO PARA SEPARAR EL REPORTE DE PROGRESO, DE REVISIONES (O CAMBIOS)
QUE NO TIENEN QUE VER CON EL PROGRESO, PERO SON INHERENTES AL PROCESO DE ACTUALIZACIÓN



GRACIAS !!!!



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AACE
PERU
SECTION

