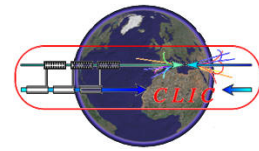




European Organization for Nuclear Research

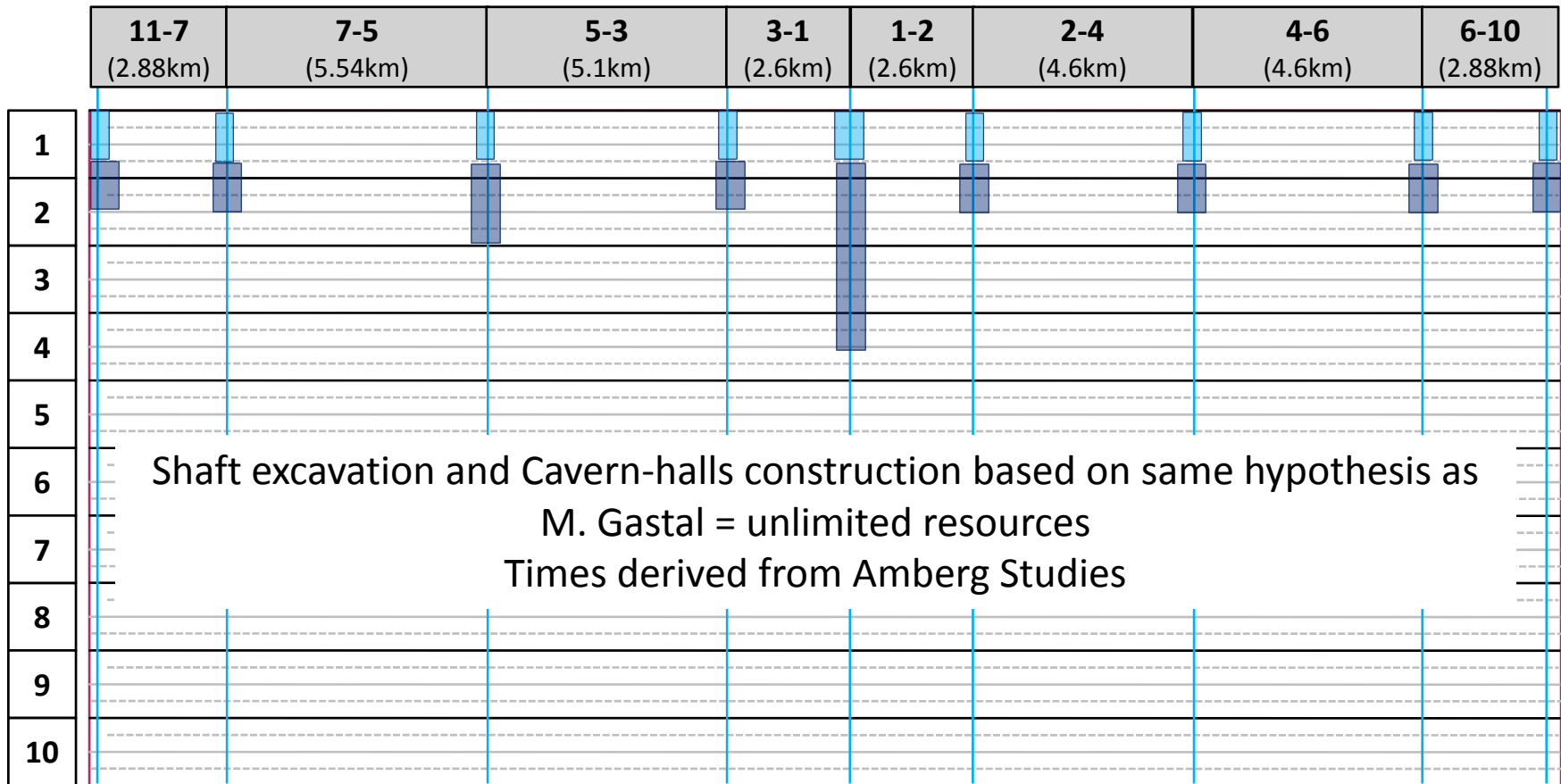


LHC scheduling applied to CLIC and ILC

TILC09 & GDE AAP review – Tsukuba April 2009

K. Foraz

ILC - Civil engineering works



■ Site installation & shaft excavation

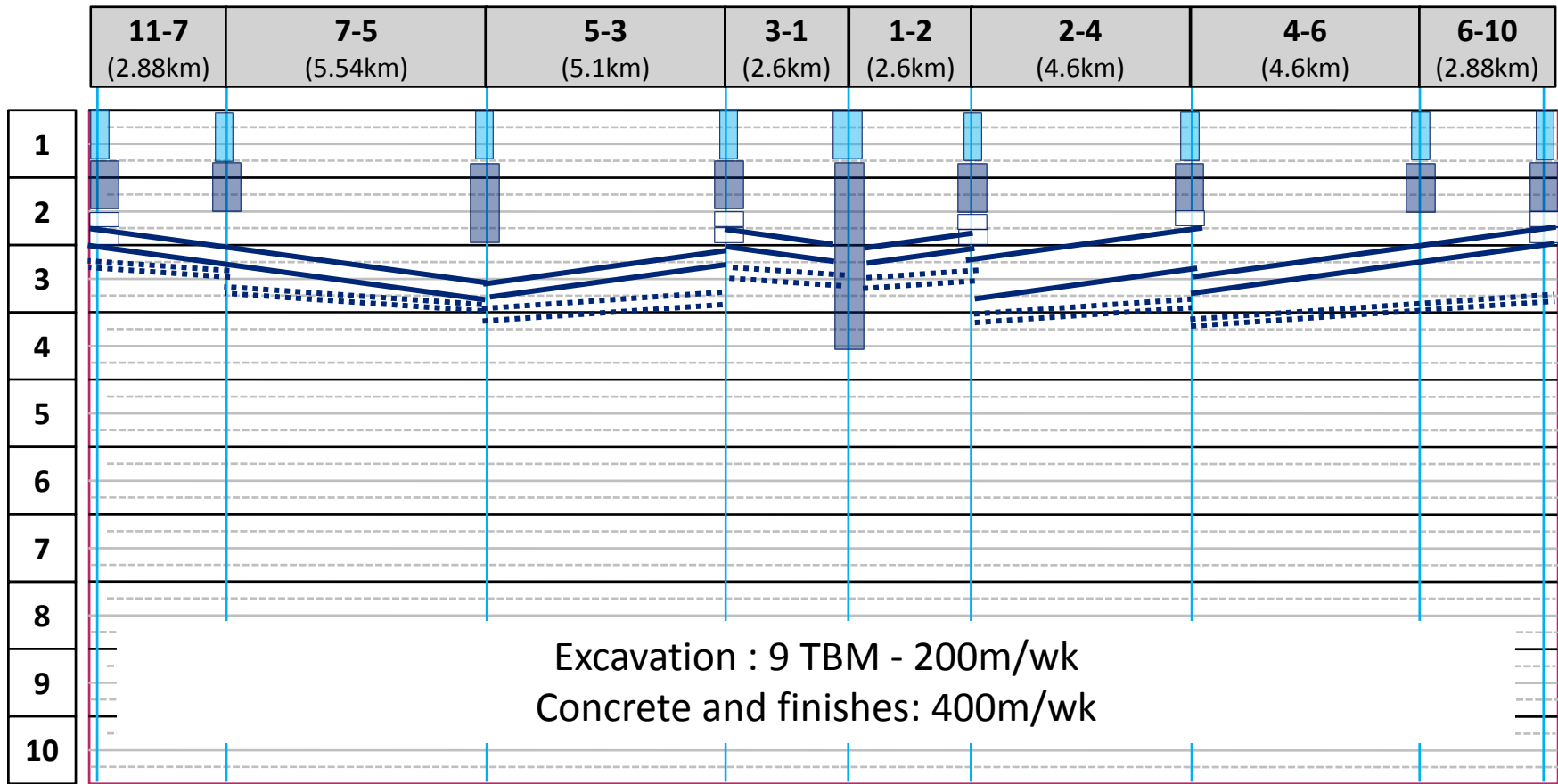
— Tunnel excavation

■ Cavern and halls

..... Tunnel concrete and finishes

■ TBM installation

ILC - Civil engineering works



Site installation & shaft excavation

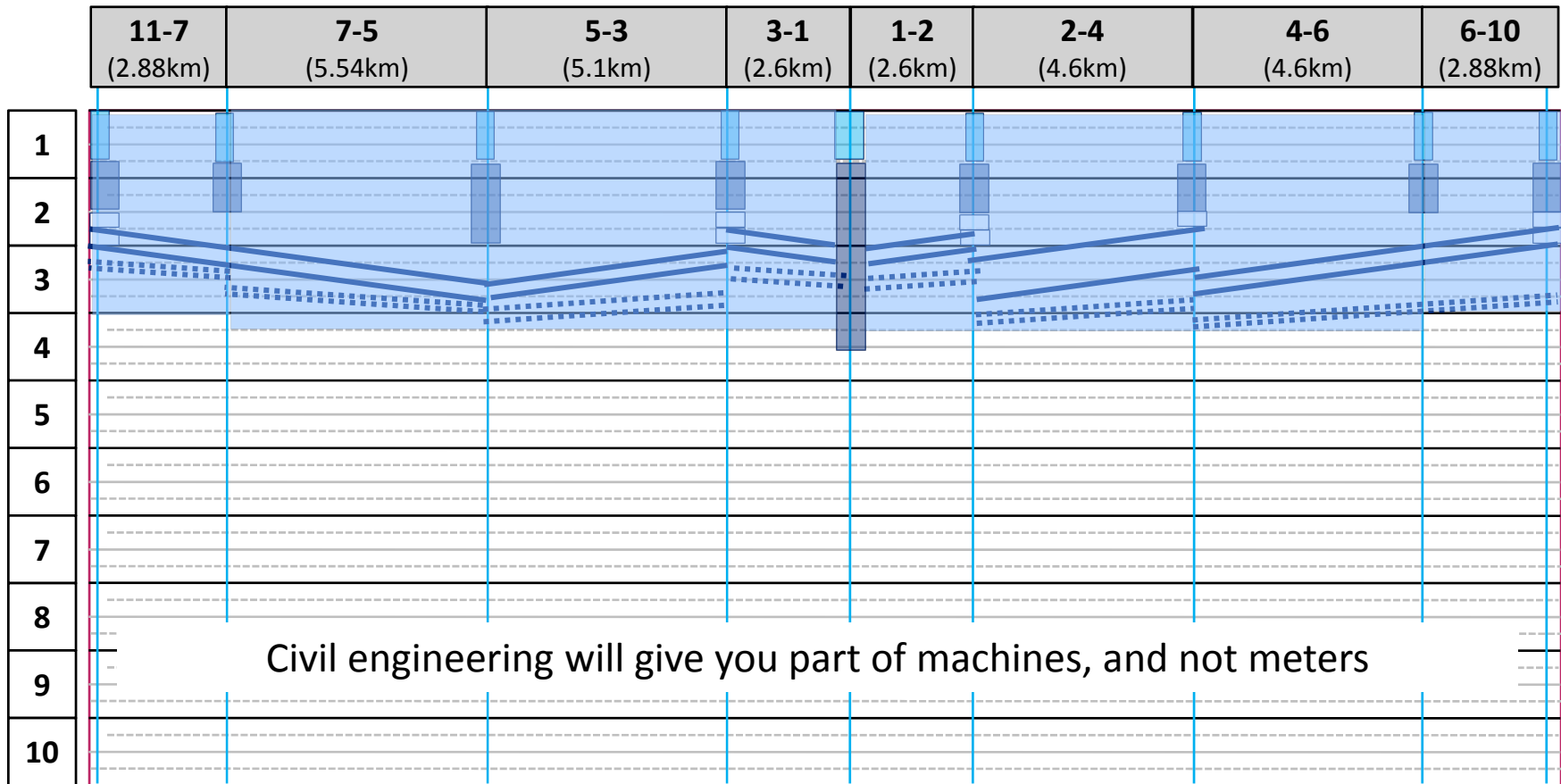
Tunnel excavation

Cavern and halls

Tunnel concrete and finishes

TBM installation

ILC - Civil engineering works



Site installation & shaft excavation

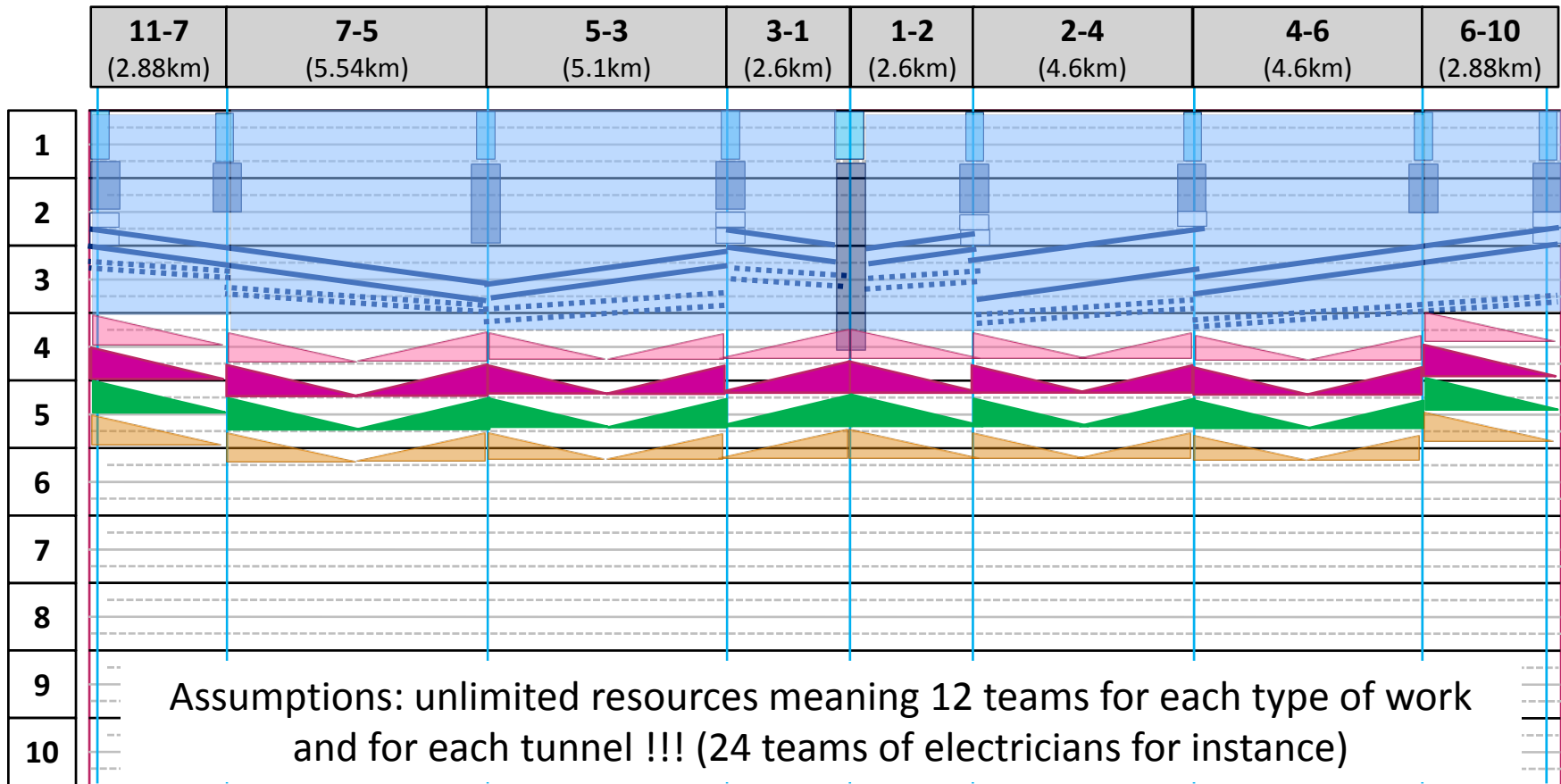
Tunnel excavation

Cavern and halls

Tunnel concrete and finishes

TBM installation

ILC - General Services



Survey : geodesics & marking positions

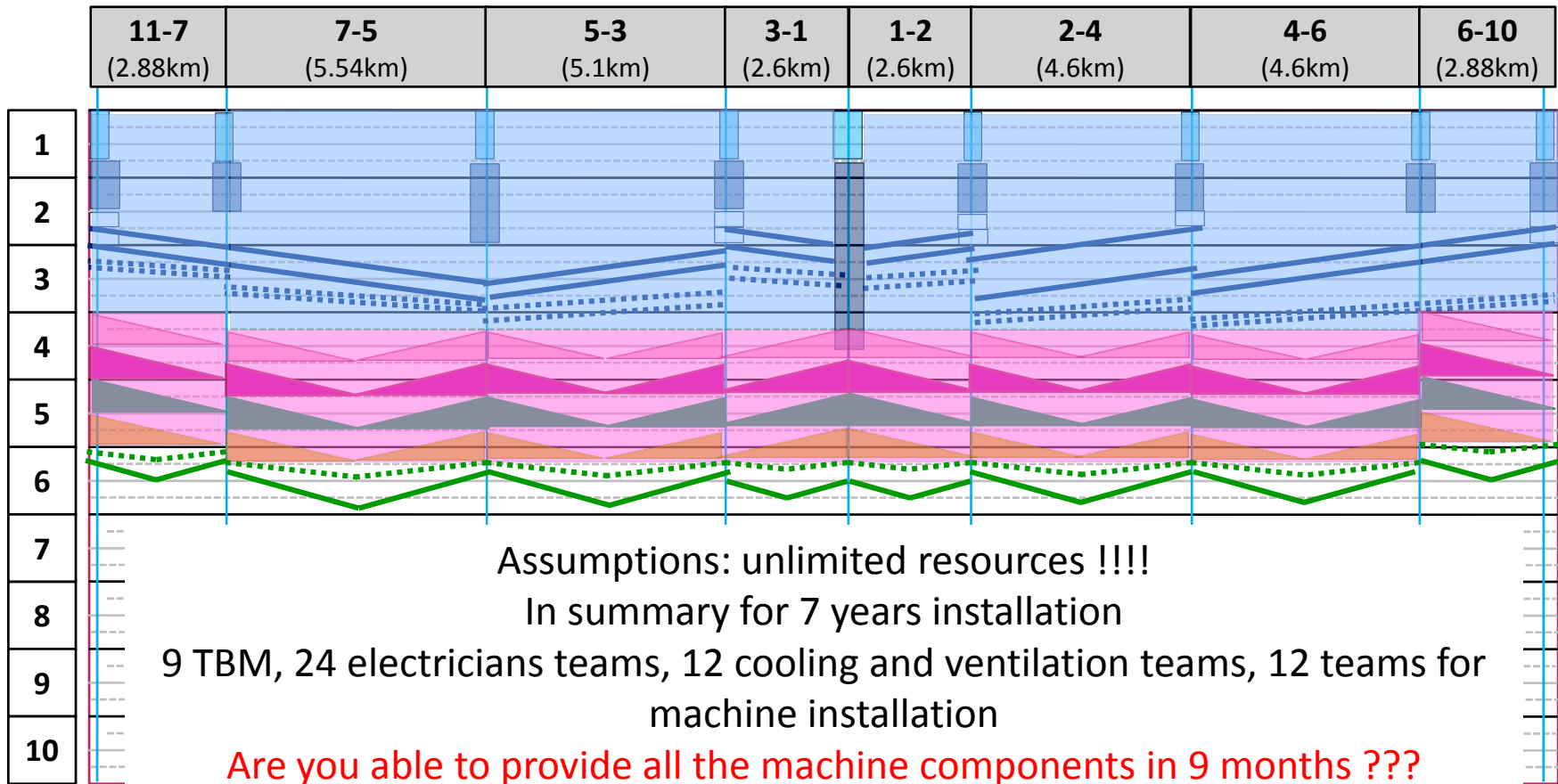
Electrical general services

Piping & ventilation

Cabling

*Estimated
progress rate per
team: around
120m/wks*

ILC - Machine installation



..... Support installation and alignment (250m/wk)

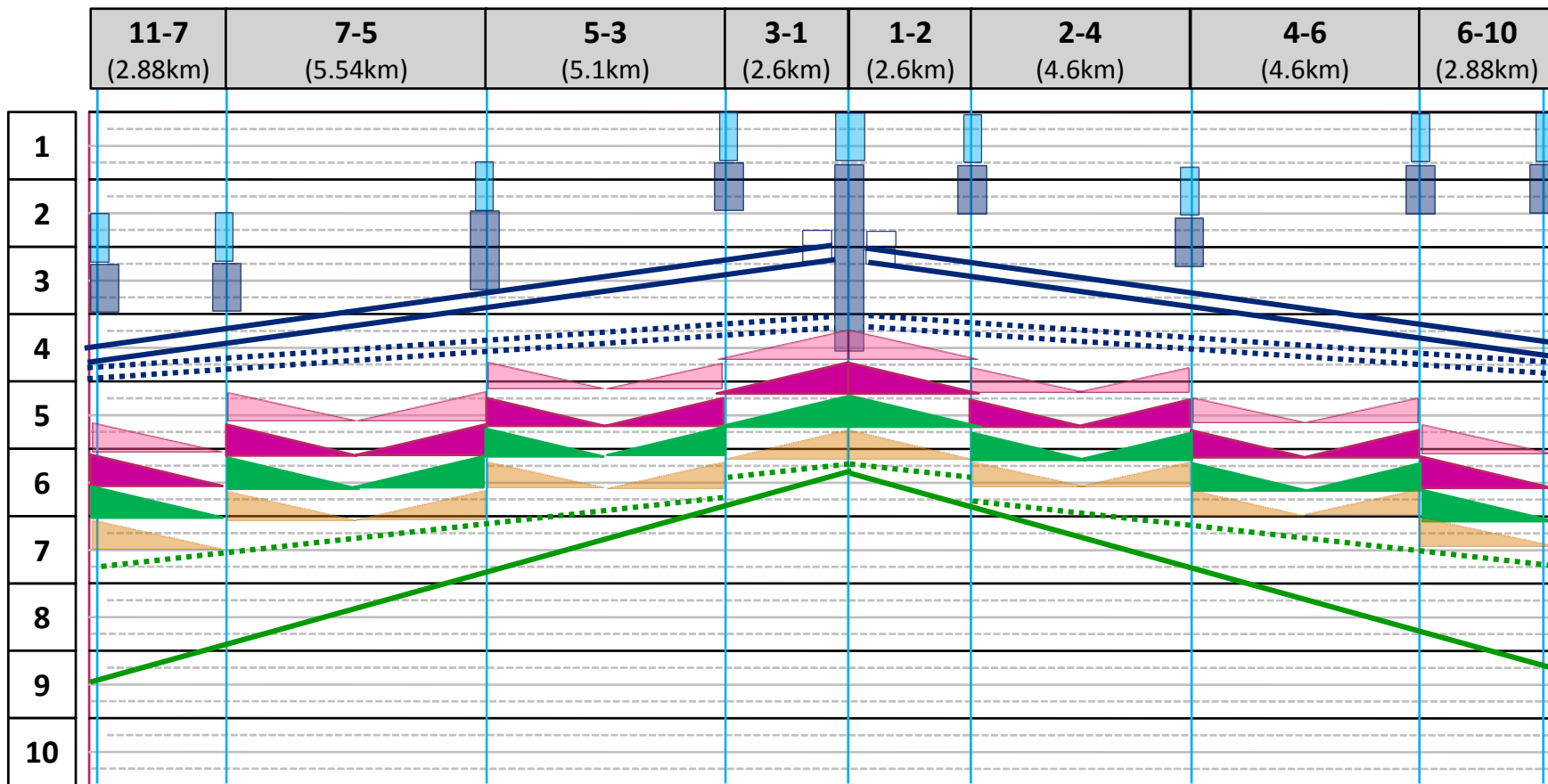
— Machine inst.: transport and interconnections (progress rate to be confirmed 100m/wk)

Resources comparison with CLIC

	CLIC ($\phi 1$)	CLIC ($\phi 2$)	ILC
Nb of TBM	2		9
Nb of teams for elec. general services	4		24
Nb of teams for cooling and ventilation	4		12
Nb of teams for cabling	4		24
Nb of teams for machine installation	2		12
	7.2y	10.5y	6y

What would be the ILC schedule if machine installation is performed with 2 teams,
& what shall be the other resources ?

ILC Schedule smoothed



..... Support installation and alignment (250m/wk)

— Machine inst.: transport and interconnections (progress rate to be confirmed 100m/wk)

Resources comparison with CLIC

	CLIC ($\phi 1$)	CLIC ($\phi 2$)	ILC
Nb of TBM	2		4
Nb of teams for elec. general services	4		8
Nb of teams for cooling and ventilation	4		4
Nb of teams for cabling	4		8
Nb of teams for machine installation	2		2
	7.2y	10.5y	9.5y