

Case Study on Bridging from The National Standard of the People's Republic of China Classification for Petroleum Resources/Reserves (CCPR) to UNFC



UNECE



Webinar on Application of UNFC to Petroleum Total
Resource Management: Status and Outlook, 29 July 2020

Why UNFC

China strives for SDGs



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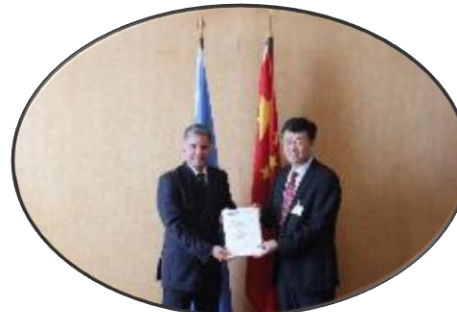
- China has contributed since 1995 (UNFC 1997)
- With UNECE and MNR's efforts, the Chinese Petroleum Bridging Document (BD) have been released in 2018, and a case study is available now



1995



2015



2018



Case study released in 2020



2012-2014



UNECE-MNR Bilateral Meeting



BD released by UNECE and MNR jointly on Sep.28, 2018

2020

Coming events:

- To Review BDs
- More case studies
- Digital tools



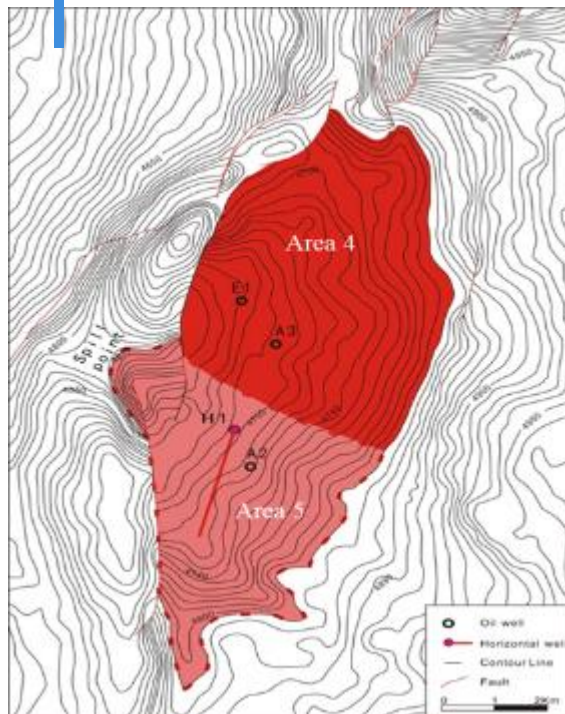
How does it work

Following BD's guidelines, CCPR estimates may be mapped to UNFC



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- This case study is intended to provide application guidelines and typical examples for the global application of the Bridging Document.



CCPR Categories						Estimates ($10^9 m^3$)	UNFC Codes
Exploration and Appraisal Stage	Measured PIIP	Proved TUR	Proved Undeveloped EUR		1.28	E1.1F1.3G1	
			Proved SER		0.85	E2F1.3G1	
		Measured UQ		0.99	E3.3F4G1		
	Indicated PIIP	Probable TUR	Probable EUR		1.15	E1.1F2.1(G1+G2)	
			Probable SER		0.33	E2F2.1(G1+G2)	
	Indicated UQ		0.69	E3.3F4(G1+G2)			
Inferred PIIP	Possible TUR		4.07	E2F2.1(G1+G2+G3)			
	Inferred UQ		1.89	E3.3F4(G1+G2+G3)			
Initial Development Stage	Measured PIIP	Proved TUR	Proved EUR	Proved Developed EUR	Cum. Production	0.34	
				Proved Developed Reserves		3.22	E1.1F1.1G1
			Proved Undeveloped EUR		1.81	E1.1F1.2G1	
			Proved SER	Proved Developed SER		0.72	E2F1.1G1
		Proved Undeveloped SER		0.37	E2F1.2G1		
		Measured UQ		2.70	E3.3F4G1		
Late Production Stage	Measured PIIP	Proved TUR	Proved EUR	Proved Developed EUR	Cum. Production	5.39	
				Proved Developed Reserves		0.36	E1.1F1.1G1
		Proved SER		0.89	E3.3F2.3G1		
Measured UQ		2.52	E3.3F4G1				

- The resources estimates throughout the whole life cycle, including the exploration & appraisal stage, initial development stage and late production stage, have been successfully mapped to UNFC.

What achieved

Observation from the Case Study



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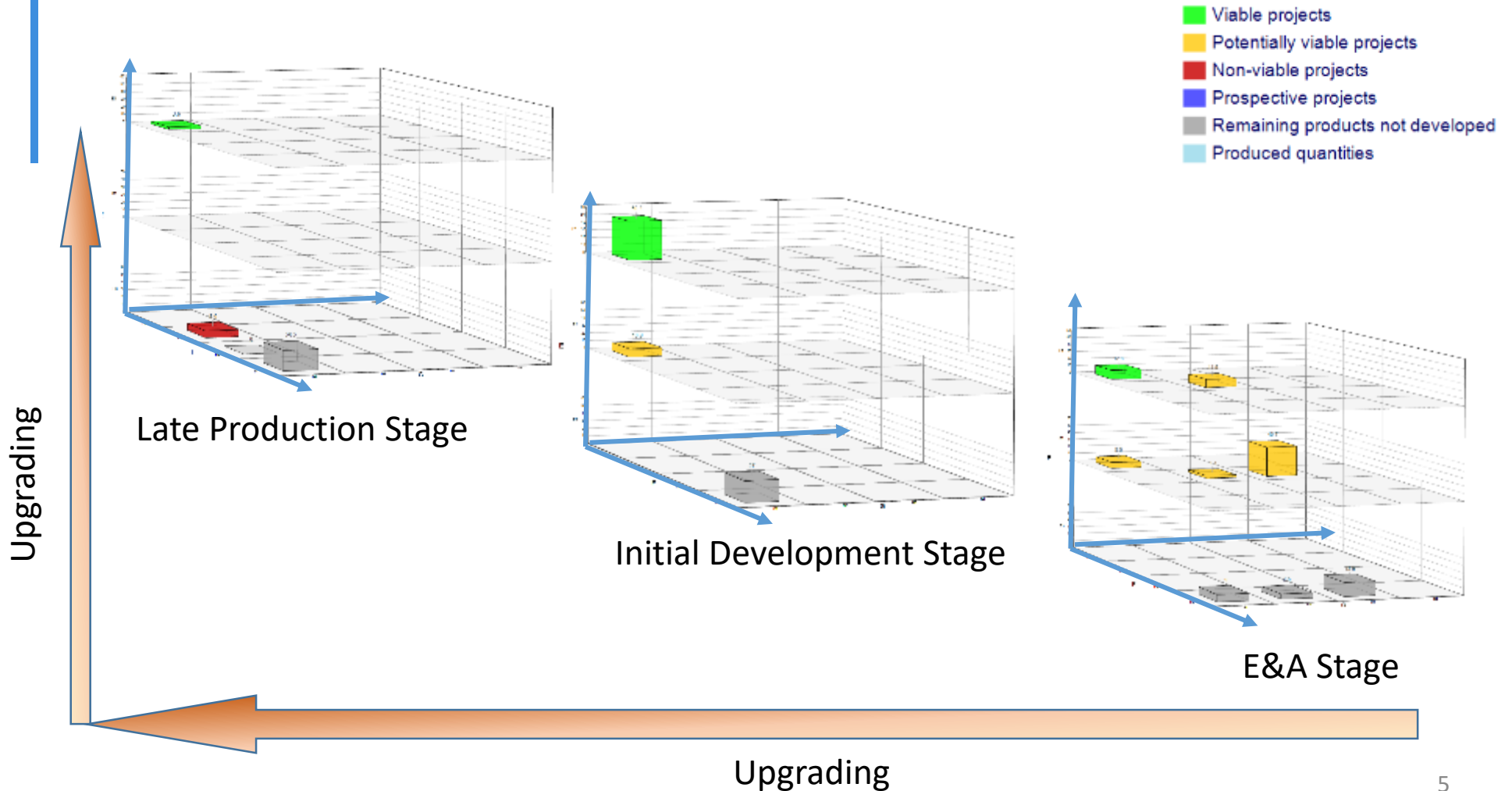
- The Chinese Petroleum Bridging Document explains the mapping correspondence between an aligned resource classification system and UNFC, and is hence of significance to promote global communication in both resource evaluation and administrative management.
- Mapping correspondences between CCPR and UNFC categories are not always one-to-one. It is helpful to further verify the corresponding relationship with both UNFC and CCPR definitions.
- UNFC is a principles-based framework system, whose code-characterized estimates could not be directly mapped to CCPR yet. It is necessary to be further justified by the underlying resources management system and rules.

More Achievements

An UNFC ToolKit for Integrated Resources Management



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Outlook: Let's do it, it works!

Winston Churchill: Continuous effort, not strength or intelligence, is the key to unlocking our potential
Let's make efforts together for our better future and a beautiful world.



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- Welcome to the “UNFC/PRMS Forum: Sustainable Resources Management, Technology and Best Practice”, to be held on IFEDC2020

International Field Exploration and Development Conference 2020
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23-25 September 2020 Chengdu, China More About IFEDC 2020

Sessions	Attendees	Speakers	Exhibitors
30+	1800+	500+	30+

- Resources management systems, specifications and codes
- Resources and reserves evaluation technology and case studies);
- Sustainable Resources Management : advanced concept, emerging technology and best practice
- Resources/reserves evaluation and management driven by digitalization

Thank you

YANG Hua

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