

'PCPN0 Ži łflłŁ

ΘάUΑΫŪΑΘCÒCA Ì Ÿ Ì Aällá ´ SKAUÝŪŸa Y SảUŸÝΑÞŸUÁAÝŸÂAU Y ZX&AŸaATŸÝÁâllá ´âUA Ì Ÿ Ì AUÝÞŸaáU Y UÝÂC

0Ž.'66/7 łflłŁ 7+)32* 59'68+6 +'62/2-7)'00 46+7+28'8/32

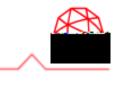
OŽ.=MMEN NOM=0ACE? LMEKME0EAN PL@=0A

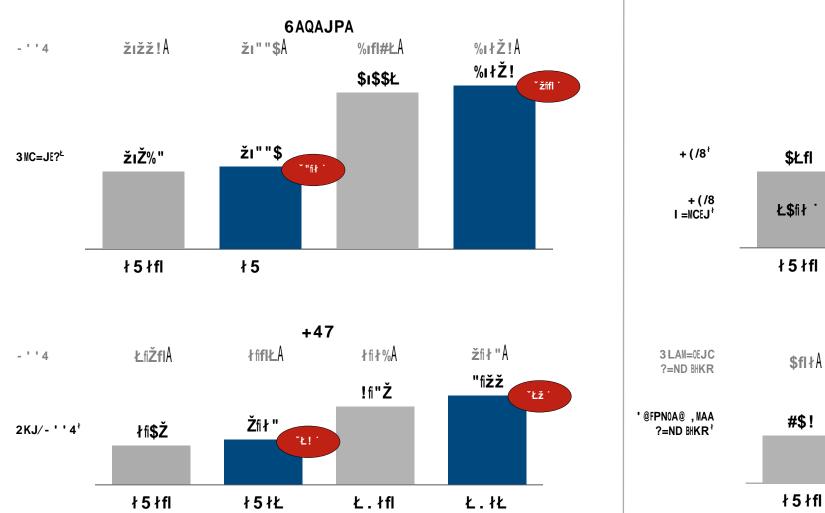


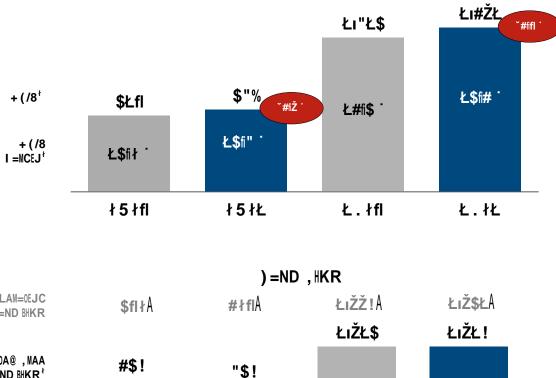
- MKR MAQAJPAfififiRAHH/=HECJA@ LKMOBKHEK REOD EJQANO I AJO EJ EJJKQ=OEKJ	<pre>W 3MC=JE?^L MAQAJPA PL "fił ` I REOD CMKROD =?MKNN =HH NAC I AJON =J@ AJ@/ I =MGAON W ,PJ@A@ (&(KB ŁfifIfI =J@ ŁfifI! <8 * fiffiJK0=>HA =R=M@ =?OEQEOT =?MKNN =HH @K I =EJN W ,<łł *K* >P@CAO MABHA?ON NO=>EHEOTfiffiO.; LMKCM= I N RAHH/NPLLKMOA@</pre>
* AHEQAM KJ EJOACM=OEKJ ?KIIEO IAJON	 W 15 JA0 ?KN0 NTJAMCEAN KB 1#1 fiffiEJ?MA=NA@ 1112 0=MCA0 0K V Ž!fl1 ?P I PH=0EQA JA0 NTJAMCEAN W /J?MA I AJ0=H KLLKM0PJE0EAN EJ?KMLKM=0A@ RE0DEJ AŽ KLAM=0EKJ=H AS?AHHAJ?A LMKCM= I
(PEH@ KJ KLAM=0EKJ=H AS?AHHAJ?A =J@ ASL=J@ I =MCEJN	 W ŽfI >LN KB I =MCEJ¹ ASL=JNEKJ 0K Ł\$fi" [·] BMK I AŽI LMKCM= I LAMBKM I =J?A =J@ NTJAMCEAN W 6=ENA@ BPHH/TA=M I =MCEJ CPE@=J?A 0K VŁ\$fi! [·] W AŽ LMKCM= I 0K ?KJ0EJPA @MEQEJC I =MCEJ ASL=JNEKJ BKM 0.;
6 AND=LA LKMOBKHEKfififiBK?PN KJ DECD I =MCEJI DECD CMKR0D >PNEJANNAN	 W)HKNA@ KJ)KI >=0 4MKLPHNEKJ 7TN0A I N =J@ 1 EHE0=MT 8M=EJEJC @EQAN0E0PMAN W 7ECJA@ @ABEJE0EQA =CMAA I AJ0 0K NAHH +HA?0MKJ *AQE?AN >PNEJANN BKM ~Ł\$! 1 W - MKNN LMK?AA@N JKR =0 ~łfi# (fiffiLKM0BKHEK ND=LEJC EN H=MCAHT ?K I LHA0A
1 =SE I EUA ?=ND BHKR REOD ND=MADKH@AM/ BMEAJ@HT ?=LEO=H @ALHKT I AJO	 W '@FPNOA@ ,) , ¹ KB ~ "\$! 1 ?KJOME>POA@ OK ~ LIFI!#1 EJ ?=LEO=H MAOPMJA@ OK ND=MADKH@AMNfiffi W fiffiASLA?O ND=MA MALPM?D=NAN KB V ~ Žfiž (EJ łflłŁi REOD OKO=H ?=LEO=H MAOPMJN KB V ~ žfił (W 3J OM=?G OK =?DEAQA ~ łfi\$ / ~ łfi% (,) , CPE@=J?Afiffi=>NKM>EJC @EQANOEOPMA DA=@REJ@N

70MKJC OŽ.=MMEN ł5łŁ BEJ=J?E=HN

ÀÆAY ÙXÙŸÝÃAU à TUZâAZU a A á ÜSaUASYŸ ´ÝâáÅ







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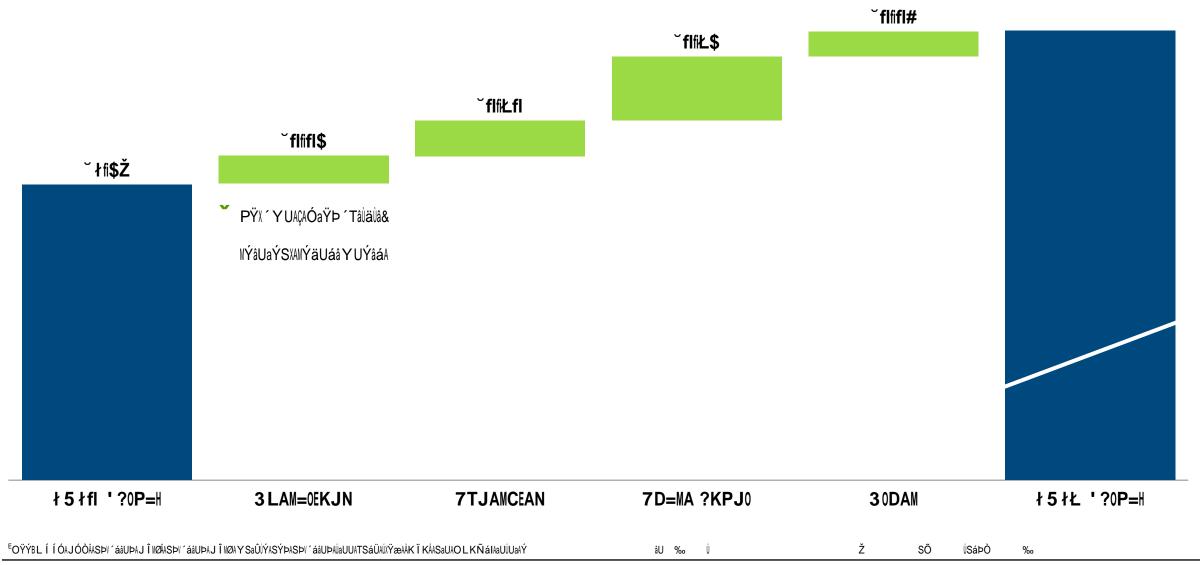
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+ (/8 = J@ 1 = MCEJ

^EŒaÛSÝITAAUBUÝ ´UAÛaŸæâÜAUATX´ÞUÁAAUBUÝ ´UASABAIŠ´ASŠIUABŸAUSTÜAÞIBUÁAUÞAŠ´ÁIÝUÁÁAUÝAABÜUAZŸABIŸÝABŪUAZŸABIŸÝAŸIABŪUAZAIŸAB&USAZUAIŸÞAUŽ ´IBSXUÝABAŸABUAZŸABIŸÝABUAZŤABIŸÝAB&USAAZUAIŸÞAUŽ ´IBSXUÝBABUSAAZUAIŸÞAIÜUAT´AAUÝAB&USAAZUAIŸÞAIÜAŠ´ÁIÝUÁÁAÆSÁAÞIBUÁAUÞIAUÚUAABŸAOLKÑAAUTŸÝTIMSBIŸÝÁASÝÞA ÞIÁTIŸÁ ´AUÁAIÝAŸBÜUAAŽ ´SABUAI&AUSAÝIÝÚÁAY SAUAIXSAIÝÞABÜUANĚŁ SAAIÁAIÝBUÁAÝAAUXSBIÝÝÁAÆUŠÁIBUC ÉOŸÝBLÍÍÓAJÓÓASÞI'ÁBUÞAJÎNØASÝÞAIUANÍÐ SAÚJÝASÝÞABUKSÁIÝVÁAÆUŠÁIBUC

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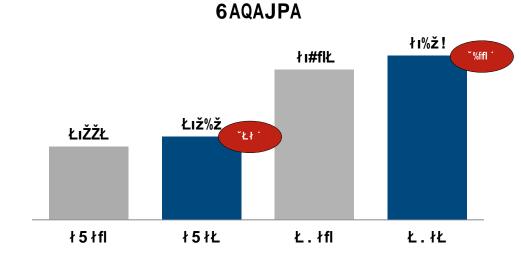




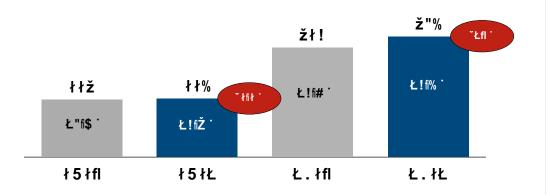
JOACM=0A@ 1 ENNEKJ 7TNOA I N



ÀÆAYÙXXÙŸÝÅ



3 LAM=0EJC EJ?K I A = J@ I = MCEJ



ł5łŁ ℚÖUäUÝ´UA´ZAEÉÁA

- $\sim La \ddot{\forall} æ a \ddot{\forall} \dot{\forall} AM O O A \dot{\forall} a \ddot{\forall} Y A a U T U Y a X & A S & S a P U P A O I Ø C A Z a \ddot{\forall} \dot{U} a S Y \tilde{A} A S Y P A \dot{\forall} A \tilde{N} S a \dot{d} \dot{a} \dot{\forall} Y U A \dot{u} a \ddot{\forall} Y A a S Y Z A \ddot{\forall} Y A W U & A Z X S a \dot{u} \ddot{\forall} a Y a A$
- $\sim i ut x \dot{y} \dot{y} d \dot{y} d$

@ ŒZUaSâÙÝÛAÙÝTŸYUAÙÝTaUSáUÞAÉCÉÁA

- ÑSaÛÙÝATŸÝâaSTâUÞAEÈDAŠZÁAâŸAEÈCÊÁA
 - $\sim \ddot{I} \ddot{Y} \acute{a} \acute{a} \acute{A} \Upsilon S \acute{Y} S \acute{U} U \Upsilon U \acute{Y} \acute{a} \ddot{A} \ddot{Y} Z U a S \acute{a} \ddot{V} \Upsilon S X A U \grave{a} T U X X U \acute{Y} T U A S \acute{Y} \acute{P} A$ $\dot{V} \acute{a} U \acute{U} a S \acute{a} \dddot{V} \Upsilon A \r{S} U \acute{Y} U U U \dot{U} \acute{a} \acute{a} \acute{A} \Upsilon \ddot{Y} a U A \acute{a} \ddot{U} S \acute{Y} \acute{A} \dddot{U} \dot{a} J \dot{U} \acute{A} \breve{A} \r{V} \dot{Y} \acute{A} \r{S} U \acute{Y} U U \dot{U} \acute{a} \acute{a} \acute{A} \Upsilon \ddot{Y} \acute{A} \acute{U} a S \Upsilon \dot{Y} \acute{A} \acute{U} a S \Upsilon \dot{Y} \acute{A} \acute{U} a \ddot{Y} \acute{U} a S \Upsilon \dot{A} \acute{A} \r{A} \r{V} \dot{Y} \acute{U} \dot{A} a S \Upsilon Z A \dddot{Y} \acute{Y} \acute{A} \acute{U} a \dddot{Y} \acute{u} a S \Upsilon \dot{A} \acute{A} \acute{A}$

ZaŸ ŴŸÝAŇÝAŇáÁŇŸÝÖ

 \tilde{a}



ł 5 łŁ

$\label{eq:constraint} OUUUY ~UA ~ZAÊCD A ASÝÞA ~ZAÊCÉ A AŸÝASÝAŸAÛSÝÙT^EAŠSÁÙÁ$

 $\label{eq:alpha} \sim \ddot{\mathsf{OSYZA}} \ddot{\mathsf{Y}} \dot{\mathsf{A}} \dot{\mathsf{Y}} \dot{\mathsf{A}} \dot{\mathsf{Y}} \dot{\mathsf{A}} \dot{\mathsf{A$



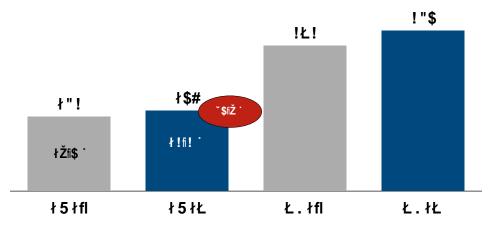
) K I I PJE?=0EKJ 7TN0A I N



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0 ÖUÄUÝ ´UA ´ZAECÊ Á ASÝÞA ´ZAÊCÉ Á AŸÝASÝAŸAÛSÝÙT^E

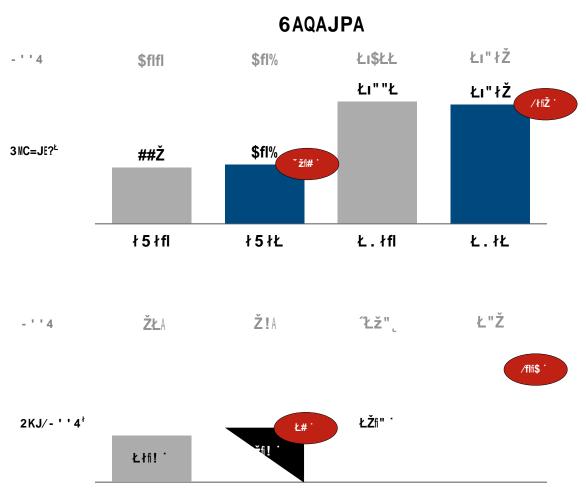




'QE=0EKJ 7TN0A I N



ÀÆA Y ÙXXÙŸÝÅ



ł 5 łŁ

Ø ÖUÄUÝ ´UA ´ZAECE Á ASÝÞA ´ZAËC€ Á AŸÝASÝAŸaÛSÝÙT^EA ŠSáÙá

- $\sim \hat{I} \ddot{Y} \check{S} UB \dot{P} \hat{U} \hat{U} \hat{a} \hat{U} \hat{a} \ddot{Y} \hat{Z} \hat{U} \hat{a} \hat{U} \hat{V} \hat{A} \hat{U} \hat{A} \hat{U} \hat{Y} \hat{V} \hat{A} \hat{A} \hat{U} \hat{Y} \hat{V} \hat{V} \hat{A} \hat{A} \hat{Z} \hat{A} \hat{U} \hat{Y} \hat{V} \hat{U} \hat{A} \hat{A} \hat{Z} \hat{A} \hat{U} \hat{Y} \hat{V} \hat{U} \hat{A} \hat{A} \hat{Z} \hat{A} \hat{U} \hat{Y} \hat{V} \hat{U} \hat{A} \hat{A} \hat{Z} \hat{A} \hat{U} \hat{X} \hat{U} \hat{A} \hat{U} \hat{X} \hat{U} \hat{A} \hat{U} \hat{X} \hat{U} \hat{A} \hat{U} \hat{X} \hat{U}$
- LaŸæâÜAÙÝA Ì UÚUÝÁUA Í ÄÙSâÙŸÝAÚAŸYASAaSYZAÙÝAÚ ´ åÙÝÛAÂA ŸaÞÝSÝTUAÁ&ÁâUYÁÃASÝÞAÙÝAÑÙÁÁÙŸÝAOUâæŸaWÁAÚaŸYA ÜÙÛÜUAAKÍ Í AÄŸX´YU

 $O\ddot{Y}\dot{Y}BLIII\dot{O}^{\acute{E}}A\ddot{Y}ZUaSa\dot{U}\dot{Y}UA\dot{Y}T\ddot{Y}YUA'ZAE{\in}\dot{A}$

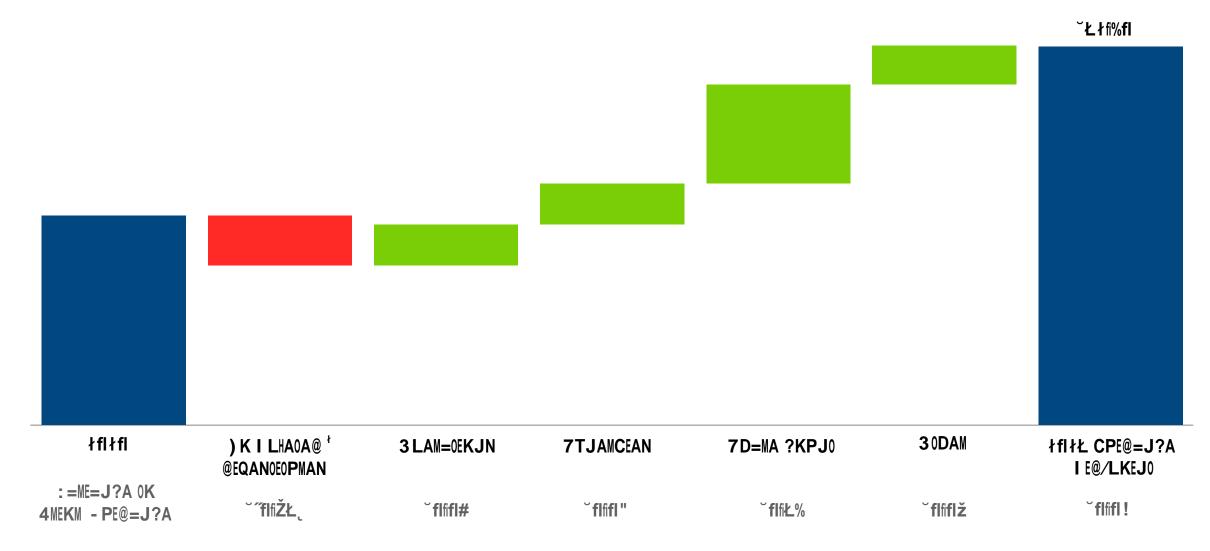
OŸÝBL Í Í Ó^ÉAYSaÛÙÝAUàZSÝÞUÞAÉDDAŠZÁAâŸAEËCÈÁA
~ ŒZUaSâÙŸÝSXAUàTUXXUÝTUÃAÙÝâUÛaSâÙŸÝAŠUÝUÚÌâáASÝÞA
ÜÌÛÜUaAäŸX´YU

® K´ÝÞUÞA Î H Î AŸÚADCGDIADCF€AÚŸaAEŁÉE



8K0=H OŽ.=MMEN			(T 7AC I AJ0		
3MC=JE? MAQAJPA [⊾]	1 =MCEJ*	/17	3MC=JE? MAQAJPA ^E	1 =MCEJ	
PL Žfifl / !fifl ⁻	VŁ\$ fi !fi [∙]	Ē.			
+47*	,) , ⁺				
˘Łłfi \$fl ∕ ˘ŁŽ fi flf l	~ ∤ fi \$ ∕ ~ ∤ fi% (





EOŸÝBLÍÍÓAJÓÒÁASÞV´ááUÞAJÍNØÁSÞV´ááUÞAJÍNØAYSaÛÍÝASÝÞASÞV´ááUÞÁÚAUUATSÁÜÁÚXŸæÁÁKÏKÁASQUAOLKÑÁIAAUÚUAAÄŸAOLKÑAUTŸÝTÍMSáÍŸÝÁASÝÞAÞÍÁTXŸÁ´AUÁAÚÝAŸáÜUAAŽ´SaáUAKSAÚSÁÁSÝÞAÐÍAAÚSÁÍZÚÁASÝÞAÐÍAÁÚÝASÁUANÊŁSaaÍÁAÍÝÄUÁAŘÝAAUKSáÍŸÝÁAæUŠÁÍAUC ÉJÁTX´ÞUÁAUÚUTãAZVÝÞÍÝÚAŸAZVÁUÝÁÍSKAÞÍAUÁAÍSAÞÍAUÁAÍÁÍAUÁAÍÍAUUATSÁŰÁÚXŸæÁÁKÏKÁASUAOLKÑÁIAAUÚUAAÄŸAOLKÑÁIAAUÚUAA

NÊŁ SaalláAA AAAAAAA ŤÍNJOÌÍÖARJÍÖAÉDÉEAÒJÏŒOÌAÔÕÍÖØJÖAJÍÖOllOLÒAÓÖJÒJOØÍØllŒO

ÀÆA Y ÙXÙŸÝAU à TUZâAÝŸâU ÞÅ

	<u> ł 5 ł fl</u>	<u>ł 5 łŁ</u>) < łŁ <u>- PE@A</u>
MÝTaUYUÝâSXATŸáâAá&ÝUaÛÙUáAÀÝUâÅA	ÆÐD	ÆÉ€	^ÆFD ÀZaŬŸa&ÆÈDAB&ÆFDÅ
OUâAÙÝâUaUáâAUàZUÝáU	ÆÐÈ	ÆÐÈ	^ÆÉÈÈ
MÝâUÛaSâÙŸÝAUàZUÝáUá ^E	ÆÊ€	ÆE€	Æ€ÈABAÆEDD
JÚÚUTâÙÄUAâSàAaSâUAÀÝŸÝBL Í ÍÓÅ	EĐ(G Á	EÐCËÁ	^EÐÁ ÀZaÌŸaAEÐABAE€ÁÅ
Í äUaSÛUAÞÜX ´âUÞAÁÜSaUÁAŸ ´âÁâSÝÞÙÝÛ ^É AàyimiÿýaáüSaUáÅ	ÉE€0F	ÉDÈCĐ	^ÉDÊ ÀZaÌŸa₄^ÉDÐÅ
OUâATSZÜâSXAUàZUÝÞÜâ ´aUá	ÆÐD	ÆÐD	<mark>^ÆÊÐÈ</mark> àZaliŸaA^ÆÊ€ÈÅ

^EÖUZaUáUÝláATŸáláASááŸTÌSlUÞAælläÜASTÜ!UälÍÝÛAÛaŸáÁAá&ÝUaÛ&AlSaÛUláC ^ÉĨ RÉEAÛ Í IÞSÝTUAIÝTX ´ÞUÁAUIIUTIAŸÍAAUZ ´aTÜSAUÁASááŸTÌSlUÞAælláÜAÝUAAZaŸTUUÞáAlaŸYATŸYZKUAUÞAÞIJAUállá ´aUáÁÁŠ ´AAÝŸlAIJaŸYAZUÝÞIÝÛAŸaAZŸlUÝAISKAÞIJaUáallá ´aUá