

rdl G G G Z Qg jQ! < OZI[j/jgEkg . l pQq]ZZQII . ld] g
! < g E P A E • A A A

\$ p g E P Q [O] [E l h g l p k j Q \$ [D] • k g Z I [G j Q] [h •

Â • <jh b<g r d II GQ jG Zj Q[Q b! p Q!] Z Zj Q! j¥ . i jhg[O YI§ zZ I[GIG
j P I <G E I Z J [] N Z] hgP! Gg hpl@ E I h< Z[d E h! • R N Q g Z] jE Y E h Q) [] N j P I
h! < L G DII MPO g I jQ H Y Y gg] NQE Q J P E g QK Q P h P g @ HEG NKEI j§
h! < L G DII MPO g I jQ H Y Y gg] NQE Q J P E g QK Q P h P g @ HEG NKEI j§

< b]] D g G g N j P l h g k E g l h p << Q Y < D j Y B < g <.h g Z Z I [G l j P < j j P l 1
! Q h h Q] [< [G g Q Z h Q h] { k j [G d g Q] g Q Q j h g g N D I E g l P l k g O I
日 [h g < j Q \$ k g] Z Z Q l j i N N Q g Z h g P Z Z I [G j Q] ? P Q Y I l g O [Q j P I
G Q Q E k Y j s l g N k E Q [D] g j P I] N E <j [Q Q K j h Q <] E j Q p Q j Q I h g g Q E E P k j h l o p
j P I] Z Z Q l j i N Y j j g O Y s j j g k Q E d g Q Z k g Q D Q j k H D Y Q h P d l g l j j P I
日 g h g [Q P h] N j R h Q j Q Q d < g j Q E E Q k Z g Q j E P I Z Q h h Q] Z d M h 1
< 日 g h j B h I Z A g] N j g N

h k d d] g j • < [G I k j P I g P I II G N Q Q M k g
Ä • 7 I b E Z Z I [G j P < E P Z < W] g I g h Q I j S] D l p E Q P E < [N E Y] g p D Q II g J j
< h h k g I j P < j j P < j j P < j Q d h Q l g k Q j m k g I < [G d h Y Q] Q I I Y Q j P I N k [E j Q] [h]
k [Q Q P I g d g h] Z I k [Q j h Q [d < b j Z Q < f k K Y h Q] d h P d b g g Q h I G < D] k j
q P J P I g j P II [F k h g k E l j k N U E j Q / ps h k d d P b j N k [E j Q] [h] N j P I k [Q j ¥ h II
E Z Z I [j h] [Q [G Q p Q G l q < Y o k P d n j h k D Q Y D I h d P g Q I Q C Q D I P & Q l g] N j P I
] p l g < Y Y < [Q I Q] [< Y < [G Z Z I j k g Q x E l j k j g I • - k j Q] [H f N l g Y & Z E I k d
G k d Q C Q d h P E Q D Q S Q < Q < Q p k O] N D l j h d g E j Q E l j h P k g Q Q j k h Q] [h

< [GI Qgk EI jNNE jlh]jNg [Q[Y D Q < h l h •
Å • .I h l EgP k [Q j h d YgQq]Q j [QY ØQjj P l g j P]lg j P]lp]h g Ø R k h g] [h h l l Z
j] D l Ø Y g j PgQgE • D < h l GG]h [q gP l [k [Ql j h g q Ng Z l G l h l EgP k [Q j h
q l g l Q j P l g d Y]< YEM KQ]Ql [< EG < jk [K Y < K l Ql j h l f k l h Q] [Q N j P l
E k g g l lg k E j k g j l Kdk l d l g j h D l h j l l l d g l F l g < Z < [GGQZ l Q E l Z l Q h h Q] [

Z I bE ZZ I [G < kQ g j I g [< Y j P l j g h k E l j k g D l h l] G q Q j j P g Z Q [Q [O Q N < Z] g E [h Q h j h g k E l j k d g k Y G D I N D Q I l Q I < Y Q [P g g N G • j < Z Q [Q j Z k Z • E Z Z Q l j l I N Y j j g h] [O Y s j P < j j P k l E Q E g . I M I < g E P h P] k M G j D l G Y Q [X D I < g l h] N g g E Y Y g l h l < g E P < [G k E P , M k g W k g h k E f Q P Q j s E j Q p Q j s j P < j D g Q f P g h [Q Y N k f P g Q P Q D Q Z l k j N j g k E f M g Q Q l d g Z] l g k [Q j h Z I Q G j Q [E Y Y h C l g l E g P k [Q j h G Z] k j E] W Y h C j g j k h f k] •

Æ • 7 P Q Y I I j B l h g j h [O < [] G E Y h k d d] g j] A Z j Q j l N E g] < Y % Ä h Q [/ j g k Q Q E + Y < [[Q [O] < Y h] A Q A G Q N A] ; D A < Ä Y h P l Q G Q g " j Q p h X < [G Q I [G Q Q Q Q d g Z h " j P] Z Z Q l j l f k j Q] [l Q P] P l g j P l l [E h g k E l j k g Q [E Y k G Q Q Q Q] N Q s p [G] Q Q l < [l l] Q j Q] [Q P k Q E P < [E Y] g] N . k g < Y •] Z Z k [Q j s < [G G k Q Q] [Q h j P N N Q] E Q [Q N N E j Q p l l g Q [h j] N < E G I Z Q g E k h j k g l j k Q Q [h B h h • b Y p < Y j Q Q] [N j P Q h k [Q j Q h j Q Z I Y s < h] [Y] Q Q [Q N Q j h h k E P < h / j P l l O " Q E h g Y [E Y N h Q b Y Y I [E I] < [G j P I " 1 . I O [j h Y < h j Q p / k E E l h h j Q b Q E [Q B l k h h C g] E g l h j d] p Q G I E G Q g [N g E P l < k Q G] Q P g • d] h h Y Q K M l j Q g h Y h] j Q Z I Y l s d g l E h P l g s < [k Z D l g] N Q K Y I Q g Q Z Q Q [h Q [j P Q h k [Q j] •

Ç • 0 P I] Z Z Q l j l N k [G Q N Q G E Q k N Q Y j k h h Z d] h Q j Q] [h Q [[E P I] N D Q g Q j j P < k Y G p Q g G I O k Q G < [E l d] h Q P Q] [Q k h E & < p Z Q Q Q Q N Q g j P l g N Y j j P j P l l g Q h < Y] E E Q h E N Q [j Q P k Q j Q] E h Y < h h Q N Q I G < h 8 d] h Q j E Z Z Q l j l b E ZZ Z I [G h j j E l g g Q < P l Y G d l l G l h < D Y Q h P j g j < P h d Q Q g I Y Q [l h N g 8 d] h Q [Q] j P j P l l g l k p Q l N d B h Q j Q] [h h k g N Q g [l h] h h E P g h h j Z •

È • \$ k j l g < E P j Q Q g Q [j P I Z Q h h Q] [Q N p l g <] E k h l j Q k h E l j k N g k j Q Y Q v Q [O] k j l g < E P < h < Z I E R k Q Q h Q [E l E j q P Q P] E Z k [Q j s P < h [] j D l l [Q] E d k g G • 0 P k < Q p N] E k N h l N g l j Z D l < g N g k Q Z h P l l Q g g B O [Q j Q] [] N < [Q g h l k d d] g] E Z k [Q Q P l] Z Z Q l j l] D l g G j P < j P l l g d g Z < k l j g E P] Q g Z h k h E g z d k h • h h h h h G Y < Y] [l k [Q j h < [G h] Z g d] g j Q [P k Q P g < G l < l [E] g Q G P Q Z E Q l j l < Y h] h] P g j P k P I Y < E X] N E] g Q Q j Q [] N j P l l h E P] Q g Z h < [G < E Y Q p Q Q j Q] N Q j h D l Q [O k [G b g Y k I G < [G k [G l l Q • E Q h Q g Q] Q] j Z l k g X P d k G < S Y Q l l l [G] [l] [l k j Q < N E Q [O < E j j Q p Q P Q] E Z Q l j l g l E Z l [G h] j E Q [k Q [O j P] h l I N g j h q j < g G] Z D E Q [I G] k j g l f E D] k P Q Z < X l g < E P < E j Q p l Q j Q G h l Y Z g g B O [Q Q < [] G Q j Q N N Q E Q I [E K Q Q P] h P g g Q E l h • s P Z d g j k N l j P I P < [E I Y Y N h Q Q l Y] d j g k h E f R g d Y g j P Q N h Z < W f E h k j g Q j • j P N h d • < Y Y J P D Q E [I G] f E j Q k [Q j h h P] K l Q G Q [D S Y Q d Q [O] j P K I Q j Q k h l k g] N j P I k [Q j] •

j s d l h] N N k [G h • ¥ C I sk l Z D Qd KN Qb j P N Q E P j P I d] l h Q] ph] Q • D Q h Q Q Y E :
h Q O f Q E N Q] E N j P I d] h Q j Q] Q j P I 0 k [Q f k < Y Q j \$ d] N j h P b E g Q Q q h
Q l E h Q l h • q Q j P h d Z g j b D l Q I [Q E Z A N g l j P < [] j h P l g [G Q s Z h l h • l j P l g
q l g p g Q < p A d j Q Q] h N q R < D l Q [Q • g h r K Z d Y l • s Z e [] d Y k l G g < W] D
G l h E Q Q [d g N Z e [] N j P I d] h Q j Q] l h Y P k l j g d g [] < g] b O g G h] N j g P Z l < N
W] D G j Q E f g Q N h] Z l] N j P I d] h Q j Q] d h h b E Z D Q g g d] h Q j Q] H h g] l P Y s
d < g j Q Z l < G g Z Q p Q h E Y l < j g j Q [l O h d P g l] d g X G k G Q E < G Z p g Q h [•
q P Q Y l l j P l g g j h g G Q G [] j p E Q Y G k g Q g Z d Q] [Q Z Q Y k P l M Q Z j Q] [] l g Q X
g [G k E g j P l N E j h j P l Q b h l Z g h Q h E Q h • o P l < g Q < D Q Y Q j s Q [j P I G <
g Z d Y Q E j P l b Q l d f l h h < [G Z < N Q l E P l Q g Z Q N h Q D G Y G b j j P I Q h h k l Q [] k g
E P Q g] N o P Z k E P g X Q h S j P l D d] h Q l j Q p Q l Q g] [Q h h k l N E j P k P l Q g
h j q Q G s h l l Z • o P k l h d g k N g j k l k Y s k [\$ l D E Z d Y l l j R < d < g j] N l Q g T E P < g
< Y h d g Q l Q N k g l G l Q g p] [Y \$ Q Y Q h d] h Q P Q E P f l q l j Q] [l G < h] d d g l Q l Q j
l < E P d] h Q j Q] [•

Nl j g k q N h P Q N j Z Z Q l l l Z l D h g Q [j R N Q N Q l g h] N j P Q b g d E l h h • j P l l < E j Q p
Z l Z D h g] N j P l Z Q l j l Q [E Y k G l Q G G G] [E X g • Z l l g Q j Y E P < Q g l Z j l Z Z D l g l
\$ N Q E l l N l Z k l j < Q [G l k G Q [G Q Y Y h Q [Z ! Q [l G] M g h Q E j Q h k j
Y < G Z j Q l Q h g b h l l j Q b < [G p] j Q [O Z l l D Z g r r • Q p Q h Q] [] N l h Q O [< []
] l j g k E j Q] [• k l h Y • Y j Q h l l d] N g X O g Q E k N g M g h] k E g l h < [j G [h Q] [• < l g G
! < Y j Y l l < E Q Y Q p Q E h l N N g g h l l j Q b l Z < P l g Z < [• l N Y " F O 5 s C f S P b P D D •

h k D]Qg lgj D k OjPj j P I q P]ZZQji N N k g j P I g G Q h E K Qh []S P Q]G hD k s < [G I B Z Z I [GjQ] [h q Q j P Z < W] g Qjj B I h Qk P] Z g QjID d gh k Z Z k G QQ [j P Q h g d] g j • l[q < E INI h h]D j Q] [h < [G h j Qk] Qh G Is Dh k DkGhg D k j [] j h [G \$ Q j P I N K K Y lQ gQ [E Y k G E lQ k h d g Y Z] b k Y] N P I Y D Q G I < h •

\$ D₁ | g_j Q] [h < [E Z Z I [G_j Q] [s D [Q j •

Â•6 Ng . k g' •] Z Z k [Q j s j G_j G k E Q] [

\$ D₁ | g<j Q] [h < [I_j [h] [E
0 P I] Z Z Q I j I E Z I k d q Q j R R < Y Q N O f j k Q h K h [G h D_j Q] [h < D] k j. j' P I 6
k [Q j j j R R] k Y G [h D Q G B g Q] I g Z Q [Q [O E Q l N g j h k E l j k Q h j Q z f g' N E p R Q Q D
1 'h Z Q h h Q] [• /] Z I] N j j P Q I] Z h < W h Q g f D I] K h g Q [E Y k G d G D I Y]

h j P Qkhd Q E j Q P] I <@ j h Z I Z D I gk Y G] j k P d H E D g D l r d < [G J G j
N k Y N Q V Y j P Q h Y Q d n f S [D P L g

• Слайд 3

" 0 P I 日 k j g k [Q j g k h E l j k Q j [O g Y Q h [] j < A h j P]] Q E Q Q j l < h j j P g l k E l j k g N j g A A A A .
" 0 P I g P p k D I I [< Y] j] N Q P j P O k [Q j d b P j g P] g j Q [O h [] Q [l d M g j k g p g 0 P j g k h E l j k [g l G h D l r d Z Q [l j G G j l g Z Q q P j P l g] Q j j g Q D h k j Q h h k l h] N g j k g [G j P P g Q j Q h] j P Q [l d h] N Q I E Q I [F z s] j Q [Q g h k G j l d E g k Q j Q [O < [G h k E E l h h .

$\langle [G] \rangle \geq [G < j Q] [h]$

" 1 [Q j h P] k <G J D G] N N N Q E Q I [E k E Q [g h h l l Z h] G G P N 6 Q E I P <[E I Y Y]
j] P p k h] l Q N G I Q g Q] g j h • l O B] g h [] j H] D Z I [l l Q g Q] g j P <[] l
< h h] j E Q Q E I E P <[E I Y Y] g Q Z Z Q Q g h l Z [Z I] j G Q P y j E E j k g Q [D h] j P <
j P l l g Q h] [l q h b] Q E Q I < E P < P E P] Z Z Q g l N Y j j P < Y Q Q K E E l j k d g k Y G
D I] j P p k j P I h h l l E Q Q E I P < P E g Y Y k g k j Q h Y Q Q E g l h q Q j P Q [j P I k [Q j q
j P I] j P l g N k [B] Q j Q K [Q g j Q] Q j g P I 6 Q P E [E I Y Y] g l D Z k \$ j P l l j j P l g
] d j Q [h j j B < Y G] Q l h Q E G g
" 0 P I] Z Z Q l j l g Z Z I [G h j < g Q [Q [O j l P j l] N E k l l g l [g Y Y Z l Z < [k Z A] j •
. I E g k Q j Q l Q Q [Q k Q] j h Q h d < g F Q Q M Q E g Q l s j Q Z I •
" 0 P I] Z Z Q l j l g Z Z I [G h < h h l h q h P b p Q P M] Q V G j h [Q P I [j P I l < [] N
/ j k G j h d] h Q j Q G l g Q l b g h k G j h < [Q E K D j j l g 0 P Q H s Q d h] h Q X Q] [
h k d d] g j Q [Q k Q] j P < [Q E K N Y j s
" 0 P I] Z Z Q l j l h 100 j h] E h Q G l g Q Q Q O P G Q d Q E Q l h Y g G I G q Q j P Q E j P l g h l g
] j g E j h k [G l g p j Q l l N k j g P l / 6

Ä • 6 Ng G Z Qf Qp / IgQ E I h

\$ Dn |g < j Q] [h < [Q] [h] [E

" 0 P I p]g< Y Y |Q B Qg|Z N B | j G < g Q G] G k B Z Z Q l j | Q h j jjP A 6 k [Q j
< d d l h] g D l l < g h] [< D N M Q E Q [G * Y O / Q E B Q G .
" k } b P l Z E Q l j | q Q h I P b C P l o n b t e - D / k T Q P Q l E Y k G Q [O . "

• | Cµ 0 • 0 b :

] N ⌈ h[Y<0] [• q P Q ⌈ P] PQ h | qNPk [⌈ gQ] [h q

k [b h g Q G] p [k l l • l \$ g p j Q Z l • h] Z l] N Q R s Z E g Q l d O D l j Z D <
h d l E Q N Q E] k Z Q Q l i [P j G E j P k P l l g h g < Y] j] N Q [G Q F Q G k [Q Y h g < [G
j P j < N N Q E Q I [E j Q D H < Q Q C Q J R k [E] Y Q Q H N < G Z Q Q N k [E j Q] [h • O P l
h k D E Z Q l i [d g Q G I G] N Q Q Z l [G I G k] [Q] Y E Q Q H D k j] j P l g
f k l h Q] [I G j P R g] g [] j] Z Q Q l i E P < G j P g Z Q Q] h < Q Y < D k Y h l j < X
j P l D I G I E Q h Q] [] j Z Q Q l i h R k G k g h P G g < G Z Q Q h g k E l j k g

A E • r l E k j l Q P Q E I P < [E b M h Y] g > + g

\$ D l l g < j Q] [h < [Q g [h] [E

- " 7 l [] j j P < h] Z l] N l h R E g P k [Q Q h • ¥ l • " . d k h l k Z l d g j l E Q Y g s j P l
d g p h Z h] Z h l g E g P k [Q Q h • ¥ l • / • " d g d]. g j j R P g P < { G d E Q E] G l < [j
j P l b b g h • < [G h l] Z l l E g P k [Q Q h • ¥ l • . l G] [l d] g j j P l] p d g j <
< Y Y • G k h Y d Y Q j l P h l h E g P g k [Q p Q [P < D Q B & k g h Q E g P < N k Y j s < [G l j g Q d < g j Q
N k E k o Y j s
- " / k Z Z l g / l h h Q p Q h G d g h Q C P [Q Q Q P Q Q P Q Z k [Q j s l] k E g P] d d] g j k [Q j Q l h Q
< G G Q] Q h] E P l G k Y E P Q [Q h] E g l h G k h Q Z l l g h l h h Q j l g Z l h g Q { [G
! < s Z l h g k l g j g Y s E Y h O < [G h E l E] l Q j h Q j Q] Z N l g Z Z l g h l h h Q] [h
E Y < h h l h • l D Q h] P g E Q [Q] [] k l g G l & E P Q d O E j Q] [h •] g s N k Z Z l g
j l < E P Q k Q G h k Z Z E g P Q l Q < Y Q Y h s j h l l N l g g [] g Z <] Y X q Y] < G h •
" 0 P l] Z E Z Q l i l G Q h E k h h l G d l l h h Q l B Z Z V g R k Q Q [h j Q] N Y Q C E R G
[k Z D h g] N k G j h < j X Q [O E Y k l O h P h l j P Z g d G h] j P l E g j N < E ` t (

" 7 I bE ZZI [G jjPjP I / E P] GYkEQ[Q] [D lplZ] k j] N " / ! f [jP I j P < G Q E jg I g] g j I G Q Y s j P I] p]gj •

C • P < [E I Y Y E g I dQ g j h •

\$ D lpg < j Q] [h < [Q [h] [E

" 0 P I j R Y Q E h O f g j < 1 • q P Q Y Q [P < s Z h k d f g f j Q [E Y k G Q [O] z I z P Q g h E Z Z Q I j i Q h Y E] N j G] I h [] j E G Y Q s g h k Z d d g j Y < h] k G j h • < [G P < h h g k O Y I j G G j i < Y g Z Q d P Q E < [E I Q h h Z k Z Q j i g R Q h E G < [k Z D j Q] I N f k I h j P j k P p k < d d f j g s D I I [I k G I G g Q [I j p R h j k g E P < h j P I N Q [< [E Q < Y h •] k h k d d g j y D] j P N Q [j j I [E Q < E] h k G h Q [Q O Q P Y M h • < [k Z D l g P] g Z < Q [Q [< • Y < [h G X h j P I] g j P I [j E D j G E D Y Q Z j P] I Z E Q I j i N Y j j P < j P Y Q E h [] I G H Y g < Y k G N g Z < X Q [O < G E Q] Q Q P D Y g E k j h •

" 0 P I] E Z Q I j i] D lpg G j P k P I d] h Q j Q E k j Q I N Q E f g 1 N Q I h Y j g f s g E I j y < D] k j A A h A E b G q Y A g j k G I G g h d I E Q Q N Q E Q Q P g [G P < h] [Y s] Q h P h Y s Q I G h Q [E I j P I [• 0 P d h h Y j k Q h P I G k [G I j g j P I E k g E P < [E I Y Y P] Q Y I Z E Q I E & h s Z d j P j Q E j P I] h d E] N j P I E P h [E I Y Y] g E k g [g l g d] [h Q D Q Y P Z Q Q I j i • f k h I Q H l g P] P I g j P I d] h Q j Q Q [< Q h Y h Q h < j Q Z I] N p h E D P k G Q E k j h •

. I bE ZZI [G < j Q] [h

" 0 P I] E Z Q I j i bE Z Z I [G h j P I d] h Q I j E Q k j j Q I N Q I E I g D I j I G Y Q E Z Q Q [f P I g h] Y k j Q j g h k h I N Q P Q h q Q j P h W I I E Q h < h k d f g g

" 7 Q j P h Z I h < G [] I Z Z Q I j i bE Z Z I [G h I Y j Q Z] Q N [f P I P Y Q E h O f g • j Q h [] f h g [< D] Y E [j j Q [k j] I j Y Q Z Q E G I Z Q D g Z h q Q j P] Q j [G k j P I j P Y Q E h I D k G Q k g Z • /] Z I] N p j Q [E h Y G I D Y G G j G] g < G Q [E g h I G] d d g j k g Q h Q j h j d h d g j b E g f Q] [• Q P M Y < P j g N E j P I j R Y Q E h Q h P Z] [g V Y R h P < Y Q E Q k Z Q j h I Y N < h j Q j R I I h h k E P < h j P I . I O P g h g ° I N Q I E I • < G M Q h [Q [Q j P h Y k h d] g P Y Q E h E g Y Q s g < [G E Q Y G Q g 0 P I p h g Q j s] N j R I E D k G I Q < h X g Q] k h Q & I g P Q Q h Z g Z I [G j Q] [Q Z d k g p

G G Q j Q] [< Y] [E I g j [h]] Z Z I [

" 0 P I] E Z Q I j i & h] bE I g [I G j j P k G Q k j h] Y Q h P j] [Y s P < Z d I g j P I b Y Y h O] d g k E j Q p Q j s D k j] E b G h k E M G C Q Q h Q Q k < h k G j h Q h < Y h] P < g N k Y 1 j ' h I g I E g P Z Q h h Q] [• 0 P Q Q [Q h g P Q g Q Q P E P h < 1 j f k g h Q < Y] N p Q E P Q Q h k g h •

" 0 P I] E Z Q I j i G Q h E k h k E G j P E Y M h C h Q Z I < h I h q Q j P V h k Q E k Y j s G] [] j j h k d d] g Z j n P d h g E g P l g P I < G k D j Q [s D j P] k I E N Y j & j j P I b Z Z Q I j i < Y h g Q [Q g j P j P I h g E g P j Q j h h P s l D I E I Z] l g < [G Z] g g Y Q & I I . < h j j P I Q h [G Q [O P I G h k E D I Q P l g E Z Q I j i N Y j j P E Y Y h O

h P] k Y G N D Q j[I Q [k s] Z N g q P I . . . D k j G Q p G j H k j D I Y d Q j I j Q j [l g G j
g h I E g P j Q Q [j H h j h P] k Y G I D h I G I E g
" h Q K G Q E Q [J B Q g h • g j] P Z I Z Q j l h d j l [f k l Q j D Q j] N j Q Z I G Q h E k h h Q [O
g h I E g P < G Z g Q Q H g k E l j k j g 1 • [j B Q h E k h h Q] [j P l j Q h h k l] N W] Q [
< d d] j Q I j h q h < Q h I G • sh j Z l q h h] g X D Y j P Q [q < q P I [j l P t q h Z] g
Z] [Is D k j P < t h < E N h q l G h p Q d S h g P < M h Y [B D [j h Q] [• h N k Z Q h O
h j g j E P I G Q j Q h [j] j j P E I Y E h g t j I P Z < Q h j k Q h < D Y Z < j Q Q [h
g h I E g P h k E E s h E h P k k [Q j P l j g h k E l j k Z g k j k E j Q p h k d l E g k Q j Q [O
g j < Q [Q K Q G Z Q Q P E M • Y j s