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"

W v k n k | E g k v j p "" E q d o' g t c "
C w i o g p v g fh"qTtg" cGnhKhFk{e" k g
D q z " R c'cepmfk'pNi q c f k p i " Q r

Depth Camera

(Augmented Reality)

3D

2017 8

P c u w v k q p " P k p c p " M c t c " I k c

W v k n k | c v k q p " q h " F g r v
C w i o g p v g f " T g c n k v { " h c
D q z " R c e m k p i " c p f " N q c f

2017 6

Nasution Ninan Kara Gicha

Nasution Ninan Kara Gicha

2017 6

_____()
_____()
_____()

C d u v ' t c e v

W v k n k | c v k q p " q'chp'fF'g r v
C w i o g p v g f " T g c n k v { " h
D q z " R c e m k p i " c p f " N q c f

P c u w v k q p " P k p c p " M c
F g r c t v o g p v " q h " K p f w u v t
V j g " I t c f w c v g " U e
U g q w n " P c v k q p c n " W p

Rc e m k p i " c p f g n q v f k p u " c t g " x g t c f e' v h k t x g k s w k g g p u v "" k c
n q i k u v k 0 e " P u q g v t " x q k p e n g { k " p v r j w c w " k r ' u t v q p e n g ' u u f u c " c p q v j g t " e j
v q " q x g t e q o g " h q u w k j p h k v k' g f p c w " c n' d k a u f' k v p u i g f " k p "
r c e m k p i " c p f " n q c f k p i " q r g t c v k q p " y j g p " u g x g
d q O E w t t g e p q v o n r { c . p " k g ' a u g ' t w v c k k n p k " | u g q h v y c t g " r c e m c i g
u q n w v k q p 0 j " g q p g w g g f " c " n q v " q h " v k o g " k p " r t g
f c H o w 0 ' v j g x g " q ' h j g g q " h g y c t g " j c u " i g p g t c . v " g f " v j g
v j g " f g n k x g t k q p p q h t g j g g u g p w k q p " o c { " e c w u

y q t mcgvtjug"" n q c'f d' p' w' p' f h g t g u wdc cpuf g" fv "j ug q" nrw0vr"kg qt p " d n w

V j k u " t g u g r " q " p e g y l " c r r t q c e j " v q " u q n x g " d q v j "
uq n w v k q p " t g r t g " q e p w " k p v k e f w g ' p r v t " q u l h g w k o k g d p 0 " T
c r r t q c e j " j c u " d v g k g n k | i k t p q i r " q f u g g r f v " j d' (e "c w o g t c " c p f "
* C T + " v g ' k p p q n g M j e g ' u p v g g y o " c r r t c q ' d e f j g "" n r g g x u g u t k c d i k g n u k
k p " f g x g n q r k p i " v j g " u { u v g o " k p v q " q z g u t ' v " c i g p
c w v q o c' k v p k v e q " h w j { g " e q p v c k p g t

M g { y q t f D q Z ' S R l' e p k p N q Q f g p d. V' k R q p r v j " E c o g t c .
C w i o g p v g f " T g c n k v { . E' { K d p g v t g " i R j c { v u g k f e' c U h { " u U v g w v. g' o
K p f w u v t { " C r r n k e c v k q p . " N q i k u v k e u
U v w f g p v " P w ó' 4 l 5 g 4 t < 7' 4 2 3 7 "

V c d n g " q h " E q p v g p v u

3 0K p v t q .f.w.e.v.k.q.p..... 3

3 0 3 0E w t t g p v ".U.k.v.w.c.v.k.q.p..... 4

3 0 3 0K ß 0 q p g u k .c..."U.k.v.w.c.v.k.q.p..... 4

3 30 0 Q0v j g t " U.k.v.w.c.v.k.q.p..... 5

3 0 3 0B 5 N " I g t o c p { " H t g k i .j.v..."N.q9c f k p i " Q

3 0 4 0O q v k x.c.v.k.q.p..... ;

3 0 5 0R t q d n g o " F.g.u.e.t.k.r.v.k.q.p..... ;

3 0 6 0T g u g c t e j " Q d l g.e.v.k.x.g..."c.p.f.."3U4e q r g

3 0 7 0U v t w e v w t g "...q.h..."v.j.g..."V.j.g.u.k.u3 5

4 0T g n c v g.f..."Y.q..t.m..... 3 6

4 0 3 0V j t/fgkgo g p u k q p c n " D q z..."N.q.c.f k ø i " R t q d

4 0 4 0C w v q o c v k e " O g c u w t.g.o.g.p.v..."q3h9" F k o g p u

4 0 5 0C w i o g p v g f " T g c n.k.v.{..."X.k.u.w.c3n;k | c v k q p

4 0 6 0G p/v/g p f " U { u v g o..."K.p.v.g.i.t.c.v.k4q4p

5 0U { u v g o "...F.g.u.k.i.p..... 4 5

5 0 3 0F g u k i p " q h..."Q.r.g.t.c.v.k.q.p.u..... 4 5

5 30 0 W0u g t " O.q.f.g.n.u..... 4 5

5 0 3 0W 4 0 t " U.e.g.p.c.t.k.q..... 4 6

5 0 4 0U { u v g o " F g u k i .p..."H.t.c.o.g.y.q.t.m4 8

5 0 4 0 3 0 " C p.c.n.{.u.k.u..... 4 8

5 0 4 0U{4u0v g o ".F.g.u.k.i.p..... 4 8

5 0 5 0K p v g i t c v k q p " O.q.f.g.n..."C.t.e.j.k4v:g e v w t g

k k k

5 0 6	0U { u v g o " H.n.q.y.e.j.c.t.v.....	5 2
5 0 7	0F c v c d c u.g..."F.g.u.k.i.p.....	5 5
5 0 8	0Q wrvw v " O q f w n g < " C.T..."X.k.u.w.c.n. Ɔ Ɔ c v k q p	
5 0 8	Ɔ Ɔ Ɔ m k p i ".C.n.i.q.t.k.v.j.o.....	5 6
5 0 8	Ɔ Ɔ 0 X k u w c n k .c.v.k.q.p..."R.t.q.e. Ɔ Ɔ u	
5 0 8	Ɔ Ɔ 0 g t c e v k q p..."H.g.c.v.w.t.g.u..." Ɔ h " C T	
5 0 9	0K p r w v " O q f w n g <..."F.c.v.c..."E.q.n.n6g4e v k q p	
6 0	G z r g t.k.o.g.p.v.....	6 7
6 0 3	0G z r g t k o g.p.v..."U.g.v.w.r.....	6 7
6 0 4	0G z r g t k o g.p.v..."T.g.u.w.n.v.....	6 9
6 0 4	Ɔ Ɔ 0 w v..."F.c.v.c.....	6 9
6 0 4	Ɔ Ɔ 0 w c n k c.v.k.q.p..."Q.w.v.r.w.v.....	7 3
7 0	E q p e n w u k q p " c p f ".H.w.v.w.t.g..." Ɔ Ɔ x g n q r	
7 0 3	0E q p e n.w.u.k.q.p.....	7 9
7 0 4	0H w v Ɔ Ɔ g Ɔ g' n q.r.o.g.p.v.....	8 2
7 0 4	Ɔ Ɔ 0 c " E q n n g e v.k.q.p..."K.o.r.t.q. Ɔ Ɔ o g p v	
7 0 4	Ɔ Ɔ 0 m k p i " C n i q t k.v.j.o..."K.o.r. Ɔ Ɔ x g o g p v	
7 0 4	Ɔ Ɔ 0 X k u w c n k c v.k.q.p..."K.o.r.t. Ɔ Ɔ g o g p v	
C R R G P F	KOZG'CCU W T G O.G.P.V.....	8 5
C 0 3	F g r v j " E c o g t c..."U.r.g.e.k.h.k.e.c.v8k5q p	
C 0 4	O g c u w t g "...F.k.u.v.c.p.e.g.....	8 6
C 0 5	F c v c d c u g "...E.q.p.p.g.e.v.q.t.....	8 6
C R R G Ɔ Ɔ	" Ɔ Ɔ E M K.P.I.....	8 8
C 0 3	R c e m k p i " C n i q t.k.v.j.o..."H.n.q.y.e8j8c t v	

C 0 4 R c e m k p i " R.u.g.w.f.q.."E.q.f.g.....	8 8
C 0 5 O c t u j c n n.k.p.i.."E.q.f.g.....	8 9
C R R G P E KXZK UWCNK \.C.V.K.Q.P.....	8 ;
E 0 3 E q p p g e v k q p.."R.J.R.."U.e.t.k.r.v.....	8 ;
E 0 4 F c v c " E q p x g t u k q.p.."*.F.D.J.c.p.f92 g t 0 e u +	
E 0 5 D q z " T g p f g t k p i !..*.O.c.p.c.i.g.D.q9z40 e u +	
E 0 6 O c p c i g " C T " Q d l g e v " D g.j.c.x.k9q6w t " * C T J	
E 0 7 K p v g t c e.v.k.q.p.."E.q.f.g.....	9 7
E 0 7 U 3 c p.u.n.c.v.g.....	9 7
E 0 7 U 4 c.n.g.....	9 7
E 0 7 U 5 v.c.v.g.....	9 8
E 0 7 U 6 n.g.e.v.....	9 9
D k d n k q.i.t.c.r.j..{.....	9 :
.....	: 4

N k u v " q h " V c d n g u

-] V c d/3n_g "" F c v c d c u g " U v t.w.e.v.w.t.g....h.q. 6 '5 D q z " F c
-] V c d/4n_g "" C T " C r r n k e c v k q p....U.v..t.w.e.v..v t: g " F g u e
-] V c d/5n_g "" K p v g t c e v.k.q.p....F.g.u.e.t.k.r.v.k. 6 p
-] V c d/3n_g "" H k o g p u k q p " F c.v.c....c.p.f....D.q. 6 K F " F c v c
-] V c d/4n_g "" R t q v q v { r g " E.g.x.g.n.q.r.o.g.p.v. 6 9 q q n u
-] V c d/5n_g "" G g c u w t g.o.g.p.v....T.g.u.w.n.v..... 7 2
-] V c d/6n_g "" B q p v c k p g t) u....u.k..|.g....h.q.t.... 7 A r g t k o g
-] V c d/7n_g "" X k u w c n k | c v k q p ".C.T....q.h....R. 7 5 m k p i " U
-] V c d/8n_g "" U k | g " c p f " E q q t f.k.p.c.v.g....F. 7 8 c " E q o r
-] V c d/3n_g "" C g c n " U g p u g " c p.f....M.k.p.g.e.v. 8 8 r g e k h k

N k u v " q h " H k i w t g u

] H k i 13 t g E 3 t i q p g u k c "...U.{..u.v..g.o..."Y.q.t.n5h n q y

] H k i 14 t g K 3 r w v " D q z " K p h q..t..o..c..v..k..q..p.. "6W u g t " K p

] H k i 15 t g 15 K 6 g y " q h " v..j..g..."e..q..p..v..c..k..p..g..t. 7

] H k i 16 t g R 3 g x k g y " q h "...v..j..g..."y..j..q..n..g..."8q p v c k p g

] H k i 17 t g F 3 N " H t g k i j v " N q..c..f..k..p..i..."C.19" C r r n k e

] H k i 18 t g E 4 p v c k p g t "...N.q.c.f.k.p.i..."R.t.q 3 2 u u

] H k i 19 t g F 4 u v c p e g " O g c u w..t..g..o..g..p..v..." E 9 c u u k h k

] H k i 20 t g E 4 t g " E q o r q p g p v u..."q.h..."C.w4 3 g p v g f "

] H k i 21 t g 15 Cu5" U { u v g o..."K.n.n.w.u.v..t..c..v..k..q..p4 6

] H k i 22 t g R 5 q r q u g f " U..{..u.v..g.o..."Q.x.g..t..x 4 9 y

] H k i 23 t g K 5 v g i t..c..v..k..q..p..."O.q.f.g.n..... 4 ;

] H k i 24 t g W 5 g t " U e g p c t k.q..."h.q.t..."K.o.r 5 3 o g p v c v

] H k i 25 t g H 5 q y e j c t v " q.h..."r..t..q..r..q..u..g..f' 5' 4 { u v g o

] H k i 26 t g U 5 t w e v w t g "...q.h..."C.T..."C.r.r.n.k 5 2 v k q p

] H k i 27 t g F 5 r v j " E c o g t c " O g..c..u..w..t..g..o 6 4 v " C n i q

] H k i 28 t g V 5 k c p i w n c v.k.q.p..."D.c.u.k.e..."R 6 3 p e k r n g

] H k i 29 t g D 6 z g u " h q..t..."G.z.r.g..t..k..o..g..p..v.... 6 8

] H k i 30 t g F 6 r v j " E c o g t c " c v v c e j g f 6' 8* N g h v + "

] H k i 31 t g D 6 z " O g c u w t g o g p v..."K.p.v.g.t 6 x e g " C r r

] H k i 32 t g H 6 q y e j c t v " q h " w u k..p..i..."v..j 6 : " k p v g t h

] H k i 33 t g O 6 U S N " F c..v..c..d..c..u..g..."E.c.v.c..... 6 ;

] H k i 34 t g K 6 c i g " O c t m g..t..."h.q.t..."G.z.r.g 7 4 o g p v

] H k i 35 t g D 6 z " 4 "...Q.d.l.g.e.v..."E.c.v.c..... 7 7

] H k i 36 t g E 6 p v c k p g t "...3..)u..."r..c..e..m..k..p..i' 7 7 g u w n v

1. K p v t q f w e v k q p

R c e m k p q d' f c k p p f i " n k n g' t q o v g k' q p h " " c v e j v g k' k k p o v r k q g t u i v k c u p w k e " d w u k p g 0 u " u R " n h c k p g p n k f p i " v j g " r c e m k p i " c p f " n q c f k p e q o r c p { " k u " v t { k p i " v q H q k p' k p k v g p e g g " q j g t' c q h " r c e m k p i " c p f " n q c f k p i " q r g t c v k q p " e c p " d u g t x k e g . " e q p v c k p u g j t k' r q " t d' w h k t n g f k k i p j i v " " c n p q f c " f { k o t i f . " v t c p u r q t f v g " u n k q i i p k k u p v i k " e r . c " e m c i k p i " h q t " y t c r r k p y d g j q w u g " c p f " q v j g ' U " q n y g k l g u v k' r e p c' q e s m' k i p n i k g' e t c { p' f k ' q n q c f k p i " p q g n g g f t q c r w k k o p k f p p k o p " d " g e v w g g e g h " v j g r t q d n g o " c p' f " " e q p f k v k q p 0

K p " U q w v j " M t q d g r : f g n k x' g t { 2 2 2 3 u 2 k 2 p 2 g 2 u " u d " q t z g g e u g " k x g x g " t f " G D U F q e w o g p _ 0 C c " t j { w . i " g 4 " 2 p 3 w 5 o d g t " v q " j c p f n g " O k u v c m g " c t p g f " v f g m a n q ' y g f " k p " q t f g t " v q " u c v k u h d q z y g u ' f g g n k x g t g u f v " " h q d h t h o k p e g g j " " c t v k f g k g u f v " t c k v d " w v k q p e g p v g t . " v j g " d q z g u " c t g " f k t g e v n { " r w v " q p " v t g i G q p 0 " t g i k q p " j c u " k v u " q y p " v t w e m " e q p v c k p J q y g x k g p t " e . g " g u " d w u k p g x i g u " f i { k' g u o' e t j w' p f m c k { p e e' g " w v k n k | c r n c p' k p k u p k i f g " v j ' g g' p' k g v t k p l w g p l v t q c t p { u " r u q v t q v t " c e i q g p " v c c p k u " p q v " . k g o e q w u g ' p w j g t g " k u " p q " v k o g " h q t " n q c f r n d k p 0 " v j k u " m k p f " q h " c r e a n k " e d g n k k y g g' d g v " j v g j t g " " q r v i q r g t c v k q k p p . " v u j w g e " j f " g c n u k " x g t { " u e j g f w n k p i " q t " t q

K p " v j g " q v j g t " j c p f . " k p " q x g t u g c u " v t c p u r q t d g e c k w p u q g p " i " f u k j u k v r c r p k e p g i g " o k p k o w o " p w o d g t " q h " w u j k n m " " c v j g " d q z g u " v q " q v j g t " r n c e g u " e " c p " e q p v

R n c p " p k g l e e c t i q " n q c f k p i " k p u " k p f ' g d v t q f j " g h t ' k e p q f p " v c k
g h h k e k g p v " n q c f k p i " y j g p " f g n M j g t u k m k ' p v j ' g h e
d w u k p g u u " q w n g y j u l e v v j l g d ' p e " v q " f g " e k c f l g f " k p j ' g q " t f
w p f g t r g t h q t V c j k e g ' t u g a u g w p l e g p ' O h q e u k g u e k k p i "
c p f " n q c f k . y j j g d g g ' t u r e k e g p w v k n k | c v k q p 0 " k u " k o r
H q t " k p e u q v p c v p c e k g p . g t " n q c f k j p k i r " r h k a p t i " O n q p i " f k u v c p e

1.1. E w t t g p v " U k v w c v k q p

V j k u g e v k q p " k p v " a w f w g p u " x k v k q w k q p " t g n c v g f "
e q p v c k p g t " n q c f k p i " q r g t c v k q p 0 " W p f g t u v c p
f g h k p k p i " v j g " n h o k ' v q r v g t c p v ' k q l p " f e g l g k ' p h j k g ' t g ' c "
r t q d n g o

1.1.1. K p f q p g u k c " U k v w c v k q p

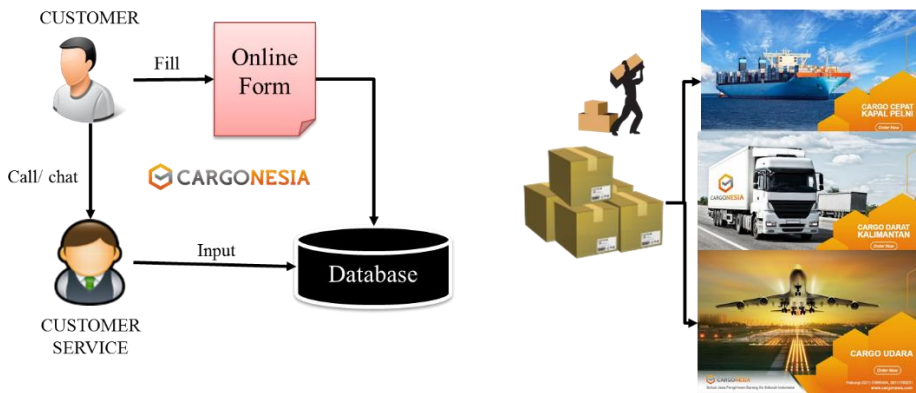
E c t i q l p k g u " k c p " K l p e f u g p f g ' u e k q c o r c p { e ' c v t / j i j q k f " r r k t p q i x k f g
u g t x k e g u " v q " c p { " r t q x k p e g " K p p ' f K p p l g q j g g ' u ' k a u " v
y q t a n " f n c t i g u v " k u n c p f v j e k w p j g g v k u n c p p H K j C " . o " q t g " v
4 2 3 0 9 j k r r k p i " u g k t u x n k k e p g f " u d " g d v k y i g " g d p w " u k p g u u " y k v j k

] H k B t " g k " u " v j g " y q t m h n q y " q h " E c t i q p g u k c " u {
u g t x E k w e u g v 0 q " o g t " e c p " q t f g t " q w u k p e i v " k p i n ' k v p j g g " u e f w u
u g t x k e g " f k t g e v n { 0 " K h " e w u v q o g t " q t f g t u " q
k p h q t o c v k q p " t g i c t f k p i " v j g " y g k i j v . " u k | g

¹ " j v v r u < 1 l e c t i q p g u k c 0 e q o l

v j t q w i j " q p n k p g " h q t o 0 " Q v j g t y k u g . " k h " J g
 o g u u g p j i g g " t e " w u q v " q o g t " u g t x k e g . " v j g " e w u v q o g t "
 k p " v j g " e q o r c p { " u { u v g o " q p " d g j c n h " q h " v j g "

Y j g p " v j g " r k e m k p i " w r " f c v g " k u " f g e k f g f . " e w
 q t " E c t i q p g u k c " e c p " r k e m " q i j o k l o " c w r k 0 q " p E " c u t q i h q v p y g e
 v q " r n c p " v j g " n q c f k p i " k p u k f g " v j g " e q p v c k p g
 f g u v k p c v k q p " c p f " g z k r p g h t q k t g o p e u g k 0 " p Q d f t j g k p x g k t f . g " v
 f c v c d c u g " k u " q p n { " h q t " j k u v q t k e c n d q " p t " g e q t f 0
 q h " v j g " f c v c " k p " c p q v j g t " q r g t c v k q p 0 "



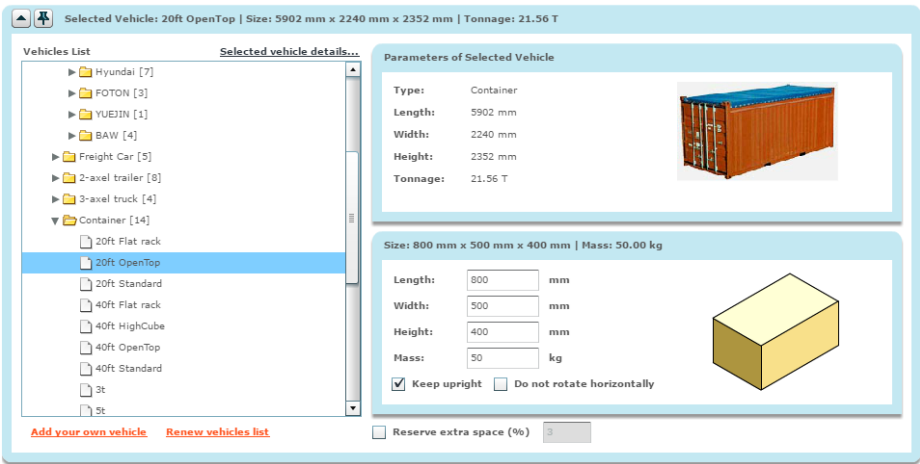
] H k i 3 6 E g " t i q p g u k c " U { u v g o " Y q t m h n q y

1.1.2. Q v j g t " U k v w c v k q p

C i k h " K u { n q i k u v k e " u g t x k e g " o e p d { r c p e j " g u ' q v j ' F w
 u r t l g p " f v j g " y q t n f 0 " h v t j g k u j " j e u d i n g k t p x i k { e " g q " h c h u g " t q u p " g " q l

² " j v v r < 1 1 y y y 0 c i k n k v { 0 e q o 1 G P 1 R c i g u 1 F g h c w n v

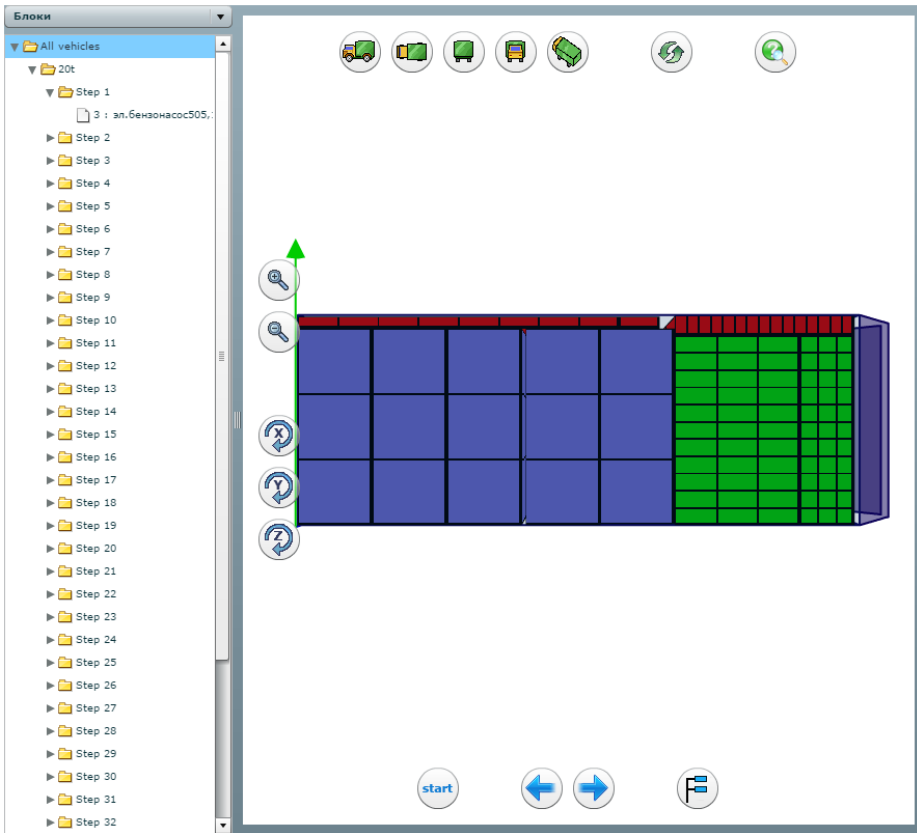
o c k p " d w u k p g u u 0 " K p " v j g " n q³d'uf d'hp vi y" c q tr gg "t w qv "k r q p
c p " g h h k e k g p v " n q c f k p i 0 " V j g " q t f g t " r t q e g u u
E w u v q o g t " e c p 'c'rt u g x'k g y 'p v' k h k' q 't f g t " d p n k p g 0 "
u g t x k e g " c r r h g e æ p v' k' d'p'è'g'g' u' v' j' j' g " u'q'p'h'n'v'k'y'p'c'g't'0'g'" r c
] H k B/W_t" gk"u " v j g " k p q v o g g t h "c'q' e g f" g y t j u g "p v" j e g w "u u w g t x k e g "
e c p " e w u v q o k | g " v j g " x g j k e n g u " h q t " u j k r r k p i
c p f " u k | g 0 " V j g p . " e w u v q o g t " p g g f u " v q " k p r w v
c d q w v " v b j c g p 'w k e n g o f u " G c e j " k p h "q q 'b d e g 'k k q p r' w q h " l g p e v
u { u v g o " d g e c w u g " k v " k u " c " e t w e k c n " f c v c " h q t
c " j w p f t g f " d q z g u . " v j g p " J g " p g g f u " v q " r w v " j



] H k i3/4_t'gK'p r w h q' D q z v' K p p " W u g t " K p v g t h c e g

Ch v g t " k v p j u g g " s t w k t p g i f " f c v c " e w u v q o g t W a k p i f i g p g t
v j g " u c o g " u q 0 V v j y g c " t x g k' u r w c e m k c | i c g v k q p " q h " v j g " t g
] H k B/5_t" g c] H k B/6_t 0 g " " "

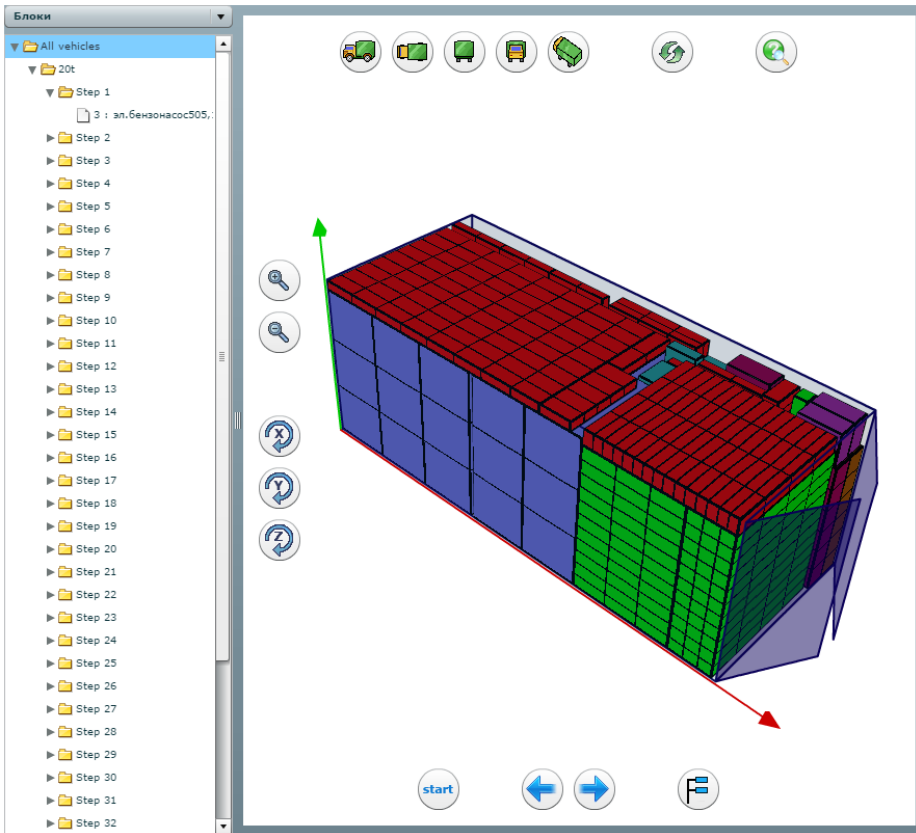
³ "j v v r < 1 1 y y y 0 r c e m g t 5 f 0 e q o l



] H k i 3 5 _ t ' g U k k f g y " q h " v j g " e q p v c k p g t

] H k i 3 5 _ t ' g k " u " v j g " u k f g " k k ' g y t ' f i h t ' v j g " e q p v c k p g t
 n q c f k p i . " e w u v q o g t " e c p " g z r n q t g " v j g " k v g o
 u v t w e v w t g " q h " u o g t k p v g v h c e g 0 ' e k k p e w d w j g " c
 e w u v q o g t " e c p k e d n y k v e m " p v u j " g c " v h " k v x j g g " q v q q g q h v y g g
 t q v c v g " c p f "] H k i 3 5 _ t ' h g t u c " q w j t g g " u q v " j g t " v { r g " q h " x
 e q p v c k p g t 0 " V j g " u k o k n c t " u q h v y c t g 4 " c u " R c e m
 u q h v c c e g 0 c r r n k e c v k q p " u q h v y c t g " j c u " v j g k t

⁴"j v v r u < 1 1 y y y 0 5 f d k p r c e m k p i 0 e q o 1



] H k i3w_Rgt "g x k g y " q h " v j g " y j q n g " e q p v c k p g t

V j u g g " m k p f " q h " u q h " k p c t g x g c e m g g g u t g j c x g g p v c
 r c r d g c t u g f " d k n p w v g q r " t k l p i v k v c n " f k u r n c { 0 " k p j " g " f k h
 t g c f k p i " v j g / l w e p f w " c n q r w e r l g d p " j c u " d g g p " u q r
 x k u w c n k | c v k q p " i t c r j k e " k p " f k i k v c n " h q t o c v
 u v k n n " k p r w v " o c p w c n n { " c p f " v j g " k p v g t h c e g
 f k h h k e w n v " h q q v w j g x g " m p q y f g f i g " q h " j q y " v
 u q h v y c t g 0 "

K p " U q w v j " M q t g c . " v j g " k p r w v " f k o g p u k q p " k u " u
 d q z " u k | g 0 " V j g " k p r w v " r t q e g u u " d g e c o g " h c u v g

v j g " e q f g " p w H d q g t " " g g z h " o t q u g u Q h h k e g ⁵ " d q z " k p " J q y g x g t . " g x g p " v j q w i j " v j g { " j c x g " u v c p f c t u q o g v k o g u " v j g t g " k u " c " e c u g " y j g p " q p g " e q p f k h h g t g p v " x g p f q t 0 " K p " v j k u " e c u g . " o g c u w t e q p f w e v g f " c i c k p 0

1.1.3. F J N " I g t o c p { " H t g k i j v " N q c f k p i " Q r g t c

C u " w g e j p o n g k i n k r g t u e p l g t y p p ' q x k c p v " k u q k p o k i n d a g t g " p h k g n f d q t V p j O g " g y " y c { " q h " t g r t g u g p v k p i " v j g " x k u w c n C w i o g p v g f " T g c n k v { " * C T + J N D k w g h ' g a p p ' v F u J " N C T c r r n k e c v k q p " h I q n t q " e h m t p g g k t i . j " v L " c n p q p c g f n k . 0 " i O " c j p . " (" V



] H k i 3 w t ' g F J N " H t g k i j C T N Q r f k k e c v k q p

V j g " h k g n f " y q t m g t u " c t g " g s w k r r g f " y k v j " u o c Y j g p " v j g " i n c u u g u " f g v g e v " r k n g " q h " d q z g u . " f k i k v c n " h q t o 0 " V j k u " c t t q y " y k n n " c w u ' k u v " v j c p f " y j g t g " v q " r w v " k v " k p u k f g " v j g " e q p v c k p g

⁵ " j v v r u < 1 1 r c t e g n 0 g r q u v 0 i q 0 m t 1 c w v j 0 G r q u v N

W u k p i " v j k u " c r r " α q' p e e j g y k j x g g j g ð ç f j t h p v C W é v k q
x k u w c n k | c v k q p " h q t o c v " v / d è u n g q f c i f c " e k g p " u v j t g w' e e v q k p
J q y g x g t . " v j g t g " c t g " u q o g " m k k o o k k w c c v k k q q p p "" k c p t
o q v k x c v g f " o g " v q " f q " t g u g c t e j " h q t " h k n n k p i
"

:

1.2. O q v k x c v k q p

N q q m k p i " c v t " c v e j " e g v g " t e p g " " a r q d r e a p p k x g g u p " v y k j q p p c n " n q c f " k p u v t w e v k q p " k p " v j g 3' 0h 3k 0p 3i 0f 0' 0c 4u j" g f " g u e t l p g y g u v " n q c f " k p u v k w " e f v g k u q e t " k d g 3 f 0' k k 0 p 5' v k p w i d " " u w g j e c v C w i o g p v g f " D g' d m l y g { x ' g * C T + v j g t g " c t g " u q o g " n k e G x g p " v j q w i j " v j g " x k u w c n k | c v k q p " k u " o q t g " k k p u v q t p w e " w k j g " x k u w c n k / c l m q p k g ' p u ' f u v e n g q e g " " U b v g c p p f u c p v j g " u { u v g o " k u " p q v " h w n n { " k p v g i t c v g f " v q " u c d q w v " d q z g u " q t " e c t i q " k v g o u " c t u e g g " o g c p c i g f e j c p i g u " k p " v j g " c f n d v l c " v k p p w c r " r n k g c v k q p w " j c u g r c t c v g n { " v q " c v f j l g w " u e v w " t v t j g g p " v f " c u v { c u " v k g p r " w j v c 0 u " p j c p f n k p i " q h " f " O v a " g a k a p p " l x g k p u y w k c q n p k | { c g v k 0 q p " r c t v n k o k v g f " v q " v j g " k p u e w w e g p c k p u l u q p n v g g " p h a g e w a p g r f c u u v k k p i " v j g " k p k' g n q f e " f k q p " t i m l g t r g t c v k q p 0

V j g u g " n k v o j k e v c " v d k t q g v " u j l e q w p f p k c p t l e g { " u d v g g e o q o k p i " o { o q v k x c v k q p " v q " e q p f w e v " t g u g c t e j " v j c v " e c p p g y g u v " v . g e q p q m k p i { " p g y " c r r c t e q m c k e p j i " " k c p p " f k " o n r q t c q f q r g t " k u k q p g " r w t r q u g " q h " v j g " t g u g c t e j 0 "

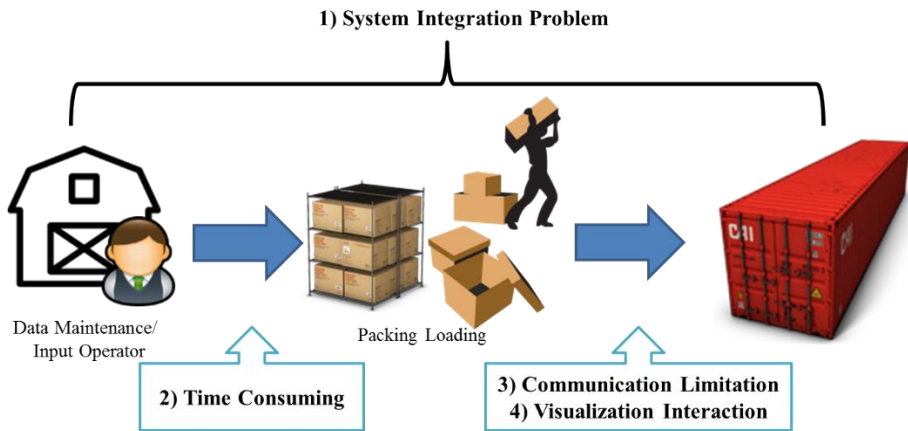
1.3. R t q d n g o " F g u e t k r v k q p

V q " u v c p f c t f k | g " v j g " v g t o k p q n q i { " v q " w u g " k c e e q o o q f c v g " k j u g " e u o n a n g f " " l e v q p o u k p g t . " y j k n g " r c e m g " v j e g a p p w a c k p g t " k k u p " q e p c v n c n k g p f g " u d " q m z d g a i f 0 k v p k i q p . " v q d l g e v k x g u " e c p " d g " i g p g t c n k | g f " k p v q " v y

;

o c z k o k | c v k q p 0 " O k p k o k | g " α n j r g " " p j v g ' d g x t c ' k q h c ' d e n g
 q t " o c z k o k | g " v j g " p w o d g t " q h " D d q t z v g h u g ' n k p v q (" " c
 Y @ u e j g 10 . " 4 2 3 5

V j ' k t u g g c t e j " k u " p u q q v n " x k p e i w ' u v k j p g i " " r k c p e " m k p i " r t q d n
 k o r t " v q j g g " r c e m k p i " c p ' f g " z r g e w f k n p 0 k p g ' g y c j v g l d q h p k ' g
 e q p v c k p g t " n q c f k p i " r t q e g u u " k u " e q o r n g z . "
 f k u v c p e g " v t c p u r q t ' h d v l o d ' p f ' k d h p g ' M x p r g r " c d v z . f " a k g
 N c w v g t d c e j . ' 0 (" V M d ' a i j k o ' r 4 2 3 4 " v j g " r t q d n g o " c
 t g u g c t e j . " n q e c n " e q p v c k p g t " n q c f k p i " r t q e g
 c u " u j q H p B & p " g h q y 0 "



] H k i 3 4 5 E g ' p v c k p g t " N q c f k p i " R t q e g u u

N q q m k p i " c v " v j g " u e q r g " c p f " h g h q w t g o c k p " e v
 r t q d n g o u " k f g p v k h k g f . " c u " h q n n q y u <

- 1) V j g " e w t t g p v " u k v w c v k q p " f q g u " p q v " j c x
 r c e m k p i " c p f " n q c f k p V ' j g ' f g h n q y k ' q q p h " " k f p c " v v
 f g e k u k q p " c t g " o c p c i g f " u g r c t c v g n { " k p " v

- 2) V j g " f c v c " e q r n n g e v g " e e v q k p q u p w " o c g p u f " " v k k p o g " " k p " v j g " u k p e g " e w u v q o g t " q t " e w u v q o g t " u g t x k e g " k p h q t o c v k q p " v q " v j g " 0 f 0 q a d q a g t u { w y g ö è f c v c " e q n n g e v k q p ' k o g v ' j k q f r ' h g o ' g t p q ' o k ' u k ' g p o " u q o g " o q q f p k . h " k q e t c " v c k f l w u v o g p v " k p " v j g " f c v c v q " g g " g t e g v v g f " c i c k p 0
- 3) V j g " e q o o w p k e c v k q p " d g v y g g p " h k g n f " g p i k K p " v j g " e q p x g p v k q p c n " y c { . " v j g " k p u v t w r c r / d g c t u g f " u q n w v k q p k " q o p g " f o k g c f . k " c q 0 t " " K c h r " r o n k k u e v c t q e e w v j g f n d c f k p i " g t t q t " o k i j v " j c r r g p 0
- 4) V j G T x " k u w c i k k u | " c y v q k t q m p k p i " c u " c u u k u v c p e g " q p k u " n c e m k p i " k p " k p v g t c e v k q p " h c e v q t 0 " V j d g " v j g " w g b ' g d ' h u k t o g o w m v k g p ' v j g " g k r g e v g f " k p r w v " k u " e j c p i g f 0

] H k i 3 w f u g j " q " y j g t g " v j g " o " k r i t j q v d " n q g e o e w t u 0 q " h W q y " c t w p ' " v q r v k o k | g t . " v j g " c r c r " n e k q e n a n v g k e q p g " f p " g h G f q u e " j k " m m w " w j u w r r n k g t " j c u " v j g k u t " " u d k y q p g " 0 u " v e c q p p f v c c t k f p k g | t g " " e d q q o z r t g r c t g f " d q z g u " c e e q t f k p i " v q " v j g k t " u v c p f v q " y t c r " v j g ' g d q z d q v z d p u f x ' q v f j " g ü n y p f h k g f k v k k p e q u v " h q t " y t c r r k p i " v j g " r c e m c i g " c i c k p 0 " V j p g g f v g j f w u j g " " u q n w v k q p " v j c v " k u " c n n q y k p i " j u v c p f c t f k | g f " u k | g " k u " p g g f g f 0

Q p e g " v j g " f c v c " k u " e q n n g e v g . f " v h j t g q " o p " g f z k v h " h u g v t g g t w p p k p i " v j g " u q h v y c t g " q r v k o k | g t " h q t " h k p f V j g " h k g n f " o c p c i g t " y j q " k u " k p " e j c t i g " q h "

u q h v y c t g " c p f " v j g p " f g e k f g 0 " V j g " f g " e k u k q p " c
v q " v j g " r g q r n g " k p " v j g " h k g n f " y j q " y k n n " n q
o c m g " g x g t { v j k p i " i q g u " c u " r n c p . " v j g " y q t m g
r c e m " v j g " d q z g u " c e e q t f k p i " v q " v j g " u q n w v k
f g n k x g t g k " è w w k p p " q t r r j { u k e c n " r c r g t 0 " D g e c
r t q d c d k n k v { " v q " o c m g " o k u v c m g " k p " n q c f k p i
k p v g i t c v g f " c p f " k p v g t c e v k x g " u q n w v k q p " h q t

1.4. T g u g c t e j " Q d l g e v k x g " c p f " U e q r g

V j g d l g e v k x g " q h " v j g " t u g " u v g j c " f t g e u j c " t k l a d " g v f q " " k u p q " n u x g g e
3 0 5 " j g { < " c t g

- 1) T g f w " è l j g l ' v v q k " o k p j r g w " v f c v c " o c p w G p n g t k p k u g g
T g w q e g " R n c p p k p i c d è m g 0 v g o "
- 2) R t q r q u k p i " c p " a u r " r j t g q v c g e t " q p i v g j p w q u w a u n p d y t f k
u k | g " d q z g u " v q " r c e m 0
- 3) T g f w " è l j g l ' f g n c { " q t " i c r " v k o g " y j g p " f g n k
h t q o " h k g n f " g p i k p g g t " v q " v j g " y q t m g t u " l
- 4) E t g c " d k p i g h t c " e k g p " v q g h t " v j g " u q n w v k q p " k p " v j
c p { d q f { " e c p " k k p q v p g " t g p c f u g { l v è w y g " u q n w v
- 5) K p v g i t c v k p i " v j g " y j q n g " q r g t c v k q p " h t q
q r g t c v k q p " f q p g 0

1.5. U v t w e v wTjgg"uqkhu" v j g "

V j k u " v j g u k " a ð k h ð n ð q 4 ð k h ð v j c g k " p t g " n c v g f " y q t m
c f f t g u u " e q p v c k p g t " n q c f k p i " r t q d n g o 0 " E j c r
o k i j v " d g " v j g " c p u y g t " v ð E " j u c q r n v x g g t " " v 5 j " g f " g k u f e g t p k v d k
r t q r q u g f " c t e j k v g e v w t g " q h " k p v g i t t g p k ð p " o
u k v w c v k q p " c p f " p g y " c r r " g z r c g t j 0 o " E j t c g r u w g m w " 6 " f g
q h " j g g z " r g t k o g p v 0 " E j c r v g t " 7 " f k u e w u . u " g u " c d q v
n k o k v c v k q p " q h " v " j g u " w r i t i q g r u q v u k g q f p " " r v t ð h " w k y o w r t g g x . g " k
f g x g n ð r o g p v

2. T g n c v g f " Y q t m

2.1. V j t/fgkgo g p u k N q c f R k t p q d z n" g o

R c e m k p i " c p f r 'g N q c f k p 'i k / Q k p u k g p d' n v " j d g z " n q c f
r t q d n g o " y k v j k p " v j g " q r g t c v k q p 0 " V j g " r t q d n
e q p v c k p g t " E g p h k k k g p v m q c f k g v i g' f e' c p u " " d i g g' q k o p g w
c u u k i p o g p v /' k y o j g g t u k' q p j a g " g u o c n n " k v g o' u " j c x g "
f k o g p u k q p c n " t g e v c p i w n l w p' a v k q g " k d l g k e w j u g t' v
v j g " p w o d g t " q h " e q p v c k p g t " q t " o c z k o k | g " v j g
D q t v h g n f v " (" W @ w e j t k t j g y g l g 5 c t g " 3 7 : " r c r g t
F g e g o d g t " 4 2 3 3 " v j c v F w g d' w k u' l v k j g g f " e v j o g n g ' z k t v k v
e c u g p w o d l g g r' q r g t u " c p f d " g t g g x u g n d q t r e k j p g i u " y k n n "

D c u g p f " v j g k t " r c r g t . " v j g " e q p u v t c k p v u " c t g " c

- 1) E q p v a l g m g t v g f " E q p u v t c k p y g u a ' j Y g F k j u w " t N k
E q p u v t c k p v u
- 2) K v g g n c v g f " E q p u v t c k p v u < " N q c f k p i " R t k q
U v c e m k p i " E q p u v t c k p v u
- 3) E c t / i g n c E g p u v t c k p v u < j " k r E g p r v n " g v E q p u v t c k
C n n q e c v k q p " E q p u v t c k p v u
- 4) R q u k v k q p k p i " E q p u v t c k p v u
- 5) N q a t f g n c v g f " E q p u v t c k p v u < " U v c d k n k v { "
E q p u v t c k p v u

V j t/fgkgo g p u k q p c n r k q g l o g " n q c f R k t p q d z n" g o .

y j k e j " o g cupqun"xjgc0t"fv"jvWqg"y " g p r e v x' gUnqf nqxt kkpvi j o " g z
u w e j " c " r t q d n g o " w u k p i " g z c e v " u q n w v k q p " o c {
p w o d g t " q h " k p u v c p e g " i g v " n c t i g t 0V"jVkj u w u . " o c
v j f f g g g p u k q p're tnq"dnnqgcof"kefcgpn"gd f g' 'w/g k o g i p' uvk q p c n "
m p e r u c e 00" c o q g g m q . " R k u k p i g t " c p f " X k i q " r t g t
c n i q t k v j o 0 " J q y g x g t . " v j g { " c n u q " u w i i g u v " c
w r r g t "" 0 q w p g n n q . " R k u k p i g t " c p f " X k i q " r t g t
r t q r q u g f " c r r t q z k o c v k q p " c " F k g t f k k j e d' . d d u g f t g'
L c p u g p . " V j ¾ n g . 0' " (J' qVyjgqxogctu. . " " v4j2k2u:" c n i q t k v j o
g p q w i j " f f k t o'g p y k g g c n " r t q d n g o 0 " V j g " c n i q t k
f k o g p u k q p c n " c r r t q c e p w b m g p v k m g p k o n' m . j " k u " Y
4 2 2. 6' y k v j " c u u w d k p i g ' p u k g i ' p k' p h u k t p' k v j g g "" v j k t f " f
v j c v " v j g " c n i q t k v j o " q p n { " e q p u k f g t u " v y q " f
k p h g k " p u k k v | g 0

V j g " e q p v c k p g t " k v u g n h " o c { " d g " Iutkgpgifn{g"" e q p
c n i q t " k o g j ' b ' u k p x i g n g " e q p v v c q k i p g g v t j " g r t t " q u l g v g j o ' e ' y j g " v
r t q e g f w t g " f w t' N k p a "" (v " j g j' d o p' v g c t . p " 4 J k y 2 c p p i " c p f " N w
r t q r q u g f e' " c c' n j i g q v t t k v u j v k " v q " r c e m " u o c n n " k v g o u
q p g " u k p i n J g w " c e p q i p . v " c J k y p c g p t i o Y " j " k n' g w h d' k 2 b g " e q p v c k
n q c f k p i ' b q t f k h k g d . " i t g g f { " c n i q t k v j o " e c p " d g
o w n v k r n g " e q p N v k c o k " p (g " t \ " j r o p g d p n i ' g 4 o 2 Q q q p " c p f " U j k p
r t q r q u g f " j { d t k f " i g p g v k q e p " v a r k i p g e t t' H' g r p t i q . d' m g t o " v
O q q p . " (" U 0 j " k p . " 4 2 3 7

V j g " v { r g " q h " t g u g d g a j i k l p i " w j j g u' ' r l t k g n k ' e k m " a
k p " v j g " c l p f f' w u u q v n t x { g " k v " w u k 0 p " j i v " r t t g u r g i d i t g e f j " " c m g i g

f g x g n y k r k p h' g t g p w'c" pu fv 'wff k{ h' hegc tu g p J d' ye g p g v .t 'c k p g
r t g x k q w u " t g u g c t e j g u " f q " p q v k u (5 0 k u h k ü v j g "
j c t f " v q " h k p f " v j g " t g u g c t e j " v j c v " c f f t g u u "
k u " p q v " f g c n k p i " y k v j " v j g " v g w j p k g c n k p i d d k
v j g " r j { u k e c n " q r g t c v k q p " v j c v "C c" m a q q u " v q " h w " p v
u { u v g o " f k f " p q v " t g e q t f " q t " v j k p m " c d q w v " v
w p t g e q t f g f " q r g t c v k q p " o k i j v " e c w u g " f g n c { "
y q t f . ü g j k u j t k u " v t { k p i " v q " e t g c v g " p g y " c r r
u q n w v k q p " y k v j " e q p u k f g t 'k p i " v j g " q v j g t " r j {

C u " u w o o c D k t g h g d f v " (_ . Y @ u p j g k p g 4 2 h h c f k p i "
o c p { " c r r n k e c v k q p u " c p f " e q p u v t c k p v u 0 " V j g "
r t c e v k e c n " u v w f { " e c u g u 0 " J q y g x g t . " k v " k u " j
q p g " o q f q p n g . " c c n p i f q " t k v j o " v q " w u g " k p " v / j k u " t g u g
f k o g p u k q p c n " n q c f k p i " r t q d n g o " o q f g n " j c u " d
o q f g n " d { " q o k v v k p i " y g k i j v " e D p m w t e k p i m w . c "
O q q t g . " (" J k q n f n g " d " t k . u " 4 w 2 2 8 k 0 " V g g k g v t g q g f k p j "
h q t " c k t e t c h v " u v w f { " e c u g 0 " V j g k u t " o a q f f g n " " k u
D c n n g y 0 . " 4 2 2 2

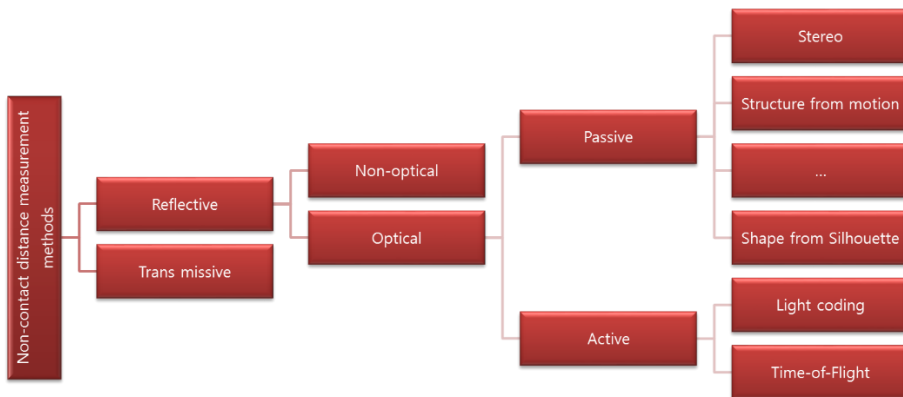
D c n v c e k q i n w . " O q q t g " c p f " J k n n " j c x g " f g x g n q
j w o c p " c r r t q c e j " k p " r c e m k p i " v j g " d q z 0 " V j g "
h q n n q y u <

- 1) J w o c p " r c e m u " h t q o " d q v v q o " v q " v q r
 - 2) J w o c p " c y f t g x q h n' c p n g " i c r " c p f " r k e m " v j g
 - 3) J w o c p " v g p f u " v q " t g f w e g " u w t h c e g " k t t g i v
- V j g { " c n u q " u v c v g f " v j c v " w u k p Y j k n g g f g p g g w e

c n i q t k v j o " k u " p q v " g/h h d g p k u l p q p' chnq"t ml pucqrnuxckepmi
d g e c w u g " q h " v j g " n g p i v j " q h " i g p g 0 " U k o w n c v g
k p " u w e j " D c " n r v t a l k n g i o n " O w " " g v " c n 0 . " 4 2 2 8

2.2. C w v q o c v k e " Q h c' F k t g p g p k v p

V j g z k u " q h p o g o g " q h " h n k i j v " F k u o g p e g' v q k v c' p c p
h t q o " e c o g t c " y k v j q w e u' b p d v k x d v k e' c a c' p h' p v g w
e q p f w e v " f g g r " t g u g c t e j " v q " E o w r t m l g v u t u k' g u r t c e v
3 ; i ; j ; c u " e n c u u k h k g f " v j g " e q o o q p " f k u v c p e g " c
u j q y p H k p i v t o g " R c u u k x g " o g v j q f / f d g o g p u k q g c n w t
f k u v c p e g " o g c u w t g o g p v " d { " y c { " q h " t c f k c v k q
r t g u g p v " k p " v j g " u e g p g 0 " V j g " g z c o r n g " q h " v j
o g v j q f " o g c p u " / b l g o g p u k q p i u v j p e g g " d { " r t q l g e v
v j g " q d l g e v " c p f " i g v " v j g " f c v c " y j g p " v j g " n k



] H k i v t g' F k u v c p e g " O g c u w t g o g p v " E n c u u k h k e

V j g " g z c o r n g " q h " c e v k x g " o g v j q f " k u " n k i j v " e
e q f k p i " k u " e q o o q p n { " k o r n g o g p v g f " k p " e j g c r
e c o g t c " w u k p i " v t k c p i w n c v k q p " o g v j q f 0 " V t q d
o g c u w t g " v j g i " f v k t u k v c p p i e w n " c w u k k q p p " o g v j q f " c p f " .
e c n k d t c v k v t p q " d d k p v 0 v q f f 3 " c ; p ; i 7 w n c v k q p " k u " w u g f " v
e c o g t c . " u q " v j c v " e c o g t c " e q q t f k p c v g " c p f " y
t g n c v g f " v q " v j k u " y q t m " c t g " v t { k p i " v q " o k p k
c p f " y q t n f " e q q t f k p i p g f k q n w g 9 f U w p n k l t q q p k q
v j c v " e c p " o g c u w t g " v j g " f k o g p u k q p " q h " r t k o k v
w u k p i " n g c u v " u s w c t g u C j p v j 0 4 2 2 p c n " f k u v c p e g

O c p { " e q p u w o g t " m g k x i g j n v " o e g c y o f j g t f c i " u k " p w " u v g j " g " o g c u w
r t q e g u u 0 " U q o g " q h " r q r w n c t " e c o g t c " v j c v " c r
c p f " K p v g n O' k T e g t c q n u " q u h g v p " u M g k 0 p " g e v " c r r n k g f " v j g " u
v j g " f J o u w w c p e . g " \ c p w v v k i j 0 . " K (p " v E g q n t " v T g g n c c n | " | U q g . p " u 4 g 2
o g v j q f " k p " t g v t k g x k p i " v j g " f k u v c p e g " q h " c p
O k e t q u q h v p M g p g f g c a p k U u g k f u g g u " e e t c k o d g g t f c " k p " v j g " .
C 0_30 "

O c p { " t g u g c f k h h g t g p v " h k g n f " w j l n k w g f i b v j k w
o g c u w t g o k g p l v t " k r e w t n M w p g e h k g n p : d g " w u g f " v q " o
c p f " x q n w o g Y " c p h " " q p N Q U p w " p 4 2 1 6 | a r p u " q C " j p r r n k g f " j
f g x g n q r g f " c n i q t k v j o " v q " v t c e m k p i " e g t v c k
f k o g p u k q p " q h " k v 0 " J k u " c n i 0 q " t J k q v y j g o x " g k t u t " g c " r k r u n " k

⁶"j v v r < 1 l e w t x u w t h 0 e q o 1

p q " t g u g c t e j " j c u " d g g p " e q p f w e v g f " { g v " k p
G u r g e k " t n g m { g " c v j g " v j c v " k u " v t { k p i " v q " w u g " f
f k o g p u k q p " q h " v j g " d q z g u " h q t " g h h k e k g p v " r c

2.3. C w i o g p v g f " T g c n k v { " X k u w c n k | c v k

K p " q t f g t " v q " u c v k u h { " v j g " f g o c p f " u p " f q " h " e w u v
q r g t c v k k q p " p g g t g f u " u q k p y c t g " v j c v " k " u ü w u g f " k
f g u e t k d g ß " 0. k ' p k " u " g a e n k k q p " " c w v q o c v k q p . " k p v g i t
r c V j g " u p g q y p " X k t " X c a n g " e T j g p c q n k q v i { { " k u " w u g f " h q t
u k o w n c v k q p " k p " v j g " k p f w u v t { 0 " H q t " g z c o r n g
y q t m g t u " j q y " v q " o c k p v c k p " v j g " w p f g t i t q w p f
D g e c w u g " o c k p v c k p k p i " r q y j g k t / s " j f c k n i k v d t k k n d g w t v " k q p "
f w g " v q " k v u " e q o r n g z k v { 0 " F k t g e v n { " r w v " v j
v t c k p k p i " k u " x f k c t p v i w g c t n q " w g u p 0 x " k V l j q w p n o t g c p n d ' f k l u n ' r e d g ' c v
C { c / h a c t e k c . " / T c q n f n t g k i i q v u g . H ' k (i " w G t t t q 0 c ' l . d " q 4 y 2 g 3 x 5 g t . " k p
X k t v w c n " T g c n k v { . " v j g " r j { u k e c n " q d l g e v u " c
k p v g t c e v " y k v j " x k t v w c n " q a d j l e p e i v k u p ' i c ' p v f j " g y " t r f j " f v
g p x k t q p o g p v 0 " V j k u " c r r r t q c e j " k ü " j i g q { q ' f c . t " g j " q y
f g c n k p g c y n k ' q j l l g e v u 0 " K p " q t f g t " v q " u c v k u h { "
* C T + " v g e j p q n q i { " k u " w u g f 0

C w i o g p v g f " T g c n k v { " * C T + " k u " c d n g " v q " e q o d
g p x k t q p o w p g y n " c p f " O k | g n " f g x g n q r u " c w i o g p v
i w k f g " v k p j p l w k k d p p i " c " y k t k p i " u { u v g o " v j c v
U v q t k p i " v j g " k p u v t w e v k q p " k p " g n g e v t q p k e "
J E c w f g n n " (" O V k j | g g t n g n " . c " t 3 g ; " ; u 4 q o g ' ' w e v d k o n k c l p g k f g ' u ' w i j o g

t g c a k v ñ K e 'c v w q p l]Icnuq"eFmJpNg"t " _gFvJ"Nc"nk0o.r"ñ4g2o3g6p v u
c w i o g p g v c g n f k " g f j p q n q i k 'u v k p e " " n u g e v q t . " u w e j " c
v t e p u r q t v c v k q p " q r v k o k | c v k q p . " f g n k x g t { " c
t g f w k g h k p i " g t t q t u " c p f " u g c t e j " v k o g . " r k
y g e t c d n g " C T " v q " c u u k l u e v j " y g j g b v " k o f " q y g x h k p 3 2 ' r t
p q v " o c p { " t i g q g f k t p e i j " g n t f k p n g o " c t g " v c n m k p i " c
w u k p i " c w i o g { p g V g j f k " u t " g o c q v k v x { c v g u " v j g " c w v j q t
x k u w c n k | c v k q p " o g v j q b " k p w r a e m k p r ' j k p f ' t g q d
v q " c w i o g p v g f " t g c n k v { " t g r t g u g p v c v k q p 0

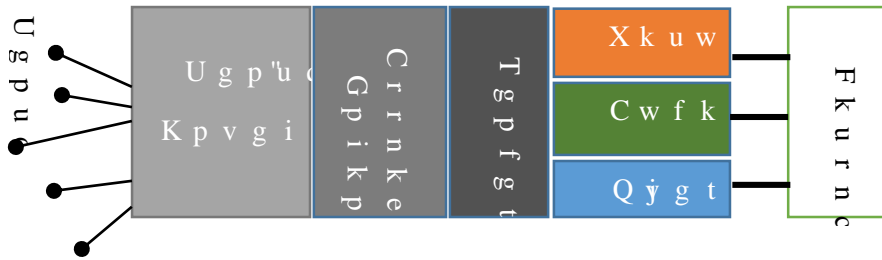
T q p c n f " V K | " v c o | w o " c g ' h k p g u " k p " j k u " r c r g t " v j c v
* C T + " j c u " v j t g g " i g p g t c n " e j c t c e v g t k u v k e u <

- 1) e q o d k p g " t g c n " c p f " x k t v w c n .
- 2) k p v e g t k a g / v k p g t g c n
- 3) c p f " t g i k u v g t g f " k p " 5 F 0

K p " i g C p w g i t o c g n p . v " g f " T g " c n k n k g ' f * C F e j t q " y k l o j r w t o q c x p k " p i "
k p v g t c e v "" d y { k " v e j q ' o q d d k l p g k e p v i u " t g c n " y q t n f " c p f " x k
j w o c p " v q " c n v g t " q t " / v o k q o f g l C h w i ' b v g j p g ' g q f d ' I I g g e v n k ' v k { p'
o c p { " f k h h g t g p v " c r r n k e c v k q p " c t g ' h p f ü w e j " c
o c p { " o q Q g " c t g c u

K p " j k " E " t d k q m " 4 2 3 5 g z r n c k p u " j q y " C w i o g p v g f " "
y q t o h j h k i 4 w t u g j " q " y j g " f k c i t c o " q h " t g n c v k q p u j k
e q o r q p g p v u . " p q v j u ' q h v y f y g t g ' q h " c p " C w i o g p v g
V j g " t g u w n v " q h " v j g " e q o r q p g p v u " k u " h g f " v q
t g p f g t u " v j g " k p h q t o c v k q p " c u " u k i p e n u " v j c v

j w o c p " c n v g t " v j g " x k t v w c n " ðvdj lgg"ecvèu.v.k"qvpj"gc"pe
 t g e q i |p ku |"gv"t k vi i g t " c p f " u { u v g o " w r f c v g u " v j g
 t g r g c v " ec p p f u"vtcgphvng{e.v"" v j g " e j c p i g u " k p v q " v j
 q e e w t t g f 0



] H k i 4 4 E g " t g " E q o r q p g p v u " q h " C w i o g p v g f " T g c

D c u g f " q p " H I J n N q " e t m g p r g q t t " v g " ð " k p ñ Q l g 'u 4 2 3 6 c e v k e g .
 T g c n k v ð " K ù ð w u t g f è u r g e v u . " c u " h q n n q y u <

- 1) E q p v ù g g z p v u k v k x g ð " K p h q t t e æ w k q i g " " T k i j v " V k o g
 R n c e g
- 2) G p j c p e g u " U g p u g u
- 3) O k z / g g f c n k v { " U G z w m æ v k p p " v j g " X k t v w c n " k p
 v j g " X k t v w c n " k p
- 4) X k t v w c n " ð K p p g t h n a g p i " v j g " T g c n " V j t q w i j

T g i c t f k p g d ù g g u " q v " k r e t g c u e . " v j g " k f g c " q h " w v k n k | k
 v g e j p q n q i { " v v q k " o u g q " n c x p g f " " v t j g g u " w t n g g y ð " n x k p ù w r æ ð ñ k p k
 n q c f k p i " r t q d n g o " e q w n f " d g " c " r t q o k u k p i " u q

2.4. G p / f / g p U { " u v g o " K p v g i t c v k q p

Gz k u v k p i " u c p f g i k k t c g w u k g q c p t e j g u " k p " r c e m k p i " c p f
j c x g " p q v " c f f t g u u g f " k p v g i t c v k q p f g u e u v g o " {
d g v y g g p " g c e j " r t q e g u u " k p " r c e m k p i " c p f " n q c
r t q e g u u " c u v " k q o p g g " " g c z p g f e " w t v g k c q n p " y q w n f " d g " d g v v g t
f g r v j " e c o g t c " c p f " c w i o g p v g f " t g c n k v { " v q "
j w o c p " c p f j " c e u q " o d r g v g v p g " R e k q v p o f u w q e o v d g q 0 0 " p y g 4 g 3 7 " v j g "
e q o d k p c v k q p " q h " f g r v j " e c o g t c " c p f " c w i o g p v
q r g t c v k q p " e j q u f w p e q v g " f d ' g g p v ' 0

K p " u w o o c t / k d g y " j g p f t " g k p v g i t c v g f " c r r t q c e j " v
k p e t g c u g " v j g " r g t h q t o c p e g " d { " o k p k o k | k p i "
j w o c p " g t t q t " e c p " d g " c e j k g x g f " d { " w v k n k | k p

3. U { u F g o k i p

K p " v j k u " e j c r v g t . " v j g " f g u k i p " q h " p g y " c r r t
V j g " u { u v g o " j c h u d t g g g p k p f g w k g p g d f f g x v g p f " u e
r t q f w e v " y k v j " d g v v g t " k p o l g t c e j k q p e v f g g k q l p "
v j g " u k o g g V j g " c p k g o y " t q q h r " q v u j g g f " " c r r t q c e j " k u " t g f w e
v k o g c e h k p i " k p " v j g v h j l g g k p v g p f e k d r p d x l g p y g g
c r r n k e c v k q p 0

3.1. F g u k i p " q h " Q r g t c v k q p u

D g h q t g " f g h k p k p i " v j g g t f g w p f k g w u w g u t g t g u g v p q e t g (p " c j t d k
f g h k p g f " k p 0 f p f " u g w a 5 " O u 3 g 4 v r k g e p v " k x g n { 0

3.1.1. W u g t " O q f g n u

W u g t " c e f g g r t g r v t j g g u " g o p q v f l g p n i " v q d n " k v j u g g w f k p i " y q t m "
u w t d q n g u . " w u g t " e n c u u " J ' d g h k p k v (k _ Q R T i g k p f 4 x g 4
v j e g w t t g p v " u { u v g o " r t q 3 e 0 k 3 g u g f j g t u g g t k p d i " g v f j " g k p " u g
u { u v g o . " c u " h q n n q y u <

Ⓔ F c v c " O c k p v g p c p e g " Q r g t c v q t

F c v c " o c k p v g p c p e g " q r g t c v q t " j c u " t q n g " v q
e w u v q o g t . " p f " k p r w n k g t " k p v q " v j g " e q o r c p

Ⓔ H k g n f " G p i k p g g t

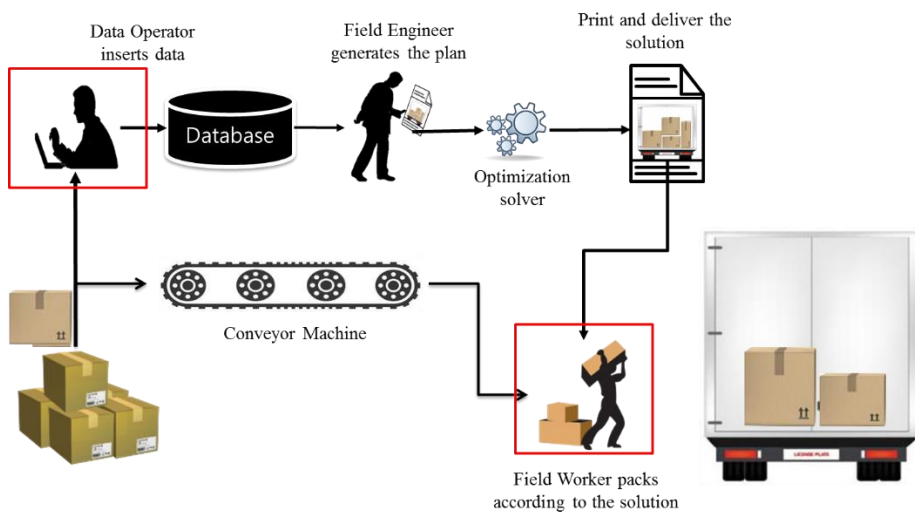
H k g n f " G p i k p g g t k u " o c m k p i " f g e k u k q p " q h " j c
d q z g u " v q " H j k g g " n e f q " p w p c k k o p k g t g o u " r c e m k p i " u q n x
h k p f " v j g " u q n w v k q p " q h " r c e m k p i 0 " C h v g t " i
v q " y q t m g t " k p " v j g " h k g n f 0

Ⓔ H k g n f " Y q t m g t

H k g n f " Y q t m g t " j c u " t q n g " v q " r c e m " v j g " c t t k x g
d c u g f " q p " v j g " u q n w v k q p " i k x g p " d { " v j g " o c

3.1.2. W u g e t g' U c t k q

] H k i 5 3 t ' g ' k n n w u v t c v v " g u { " u v j g g d i l " c h e m t o k t y g " p " c p f " n q c f
q r g t c v k q p 0 "



] H k i 5 3 t ' g ' k n n w u v t c v k q p

Y j g p " v j g " q t f g t ö e k p g g p t p æ w u q q æ g t v j k o u g n h

t g e q t f " v j g "kppgveqg"uvujcgt" {e"qfocrvc cp H k g a f c' d p u k p g g p
p g g f u " v q " o c m g " f g e k u k q p " q h " j q y " v q " r c e m "
U q o g j q y . " h k g n f " g p i k p g g t " y c p v u " v q " u g g " v j
f g r g p f k p i " q p " j q y " o c p { " d q z g g x' gctt.g" "vcjxcevkn"
k p h q t o c v k q p " e c p " q p r g t' c' d' k' q' p' g' g' p' k' h' g' t' j' w' t' f' c' v
v j g " e q o r c p { " f0c"vJcgl"chuqg'pt fg"i w j c v t' h u' q o g v k o g u "
c h v g t " c n n " v j g " d q z g u " c t g " e q n n g e v g f " k p " v
r t g x k g g' c' k' g' g' " u k v w c v k q p j' g' p' g' x' g' g' "Yjgg'tpg"q' p' w' u' g' '
f g e k f k p i " v j g " n q c f k p i " runqcnpx.g" "hkkgv"nwfu" kopcip"cuicq
r c e m c i g 0 " C h v g t " v j g " u.q"nkwk'k'q'p' " o' c' p' c' idggg"p' r' t'
u q n w v k q p " c p f " u g p f u " " k v " v q " y q t m g t u " k p " v j g
"

C " h k g n f " y q t m g t " j c u " t g e g k l x'g'f'g' g' p' i' g' k' "p' g' g' g' r' t' k'
v j t qewqiojr" c p f h k' d' g' v' k' q' p' g' u " v j g " g p v g t r t k u g " c r r
u q n w' J' d' q' p' g' g' t . " J g " e q w n f " p q v " w p f g t u v c p f " v j
k p u k f g " v j' g' g' " e e' c' p' p' v" c' q' k' p' n' g' { t' "0u g g " v j g " u g s w g p e g " q l
n c { g t " v q " q w v u k f g " n c { g t . " d w v " k v " p g g f u " v k
k p " t g c n " g p x k t q p o g p v 0 " T g c f k p i " v j g " u q n w v k
t g r g c v g f n { " y j k e j " kfuu" "vgkcougk"ge tq"pcupwfo"khpciu0v" gJtg" "o
j k o " k p " r c e m k p g i " " w j j g' g' " e d' q' p' z' g' a' k' p' k' p' t' u' k' "

3.2. U { u v g o " F g u k i p " H t c o g y q t m

3.2.1. I c r " C p c n { u k u

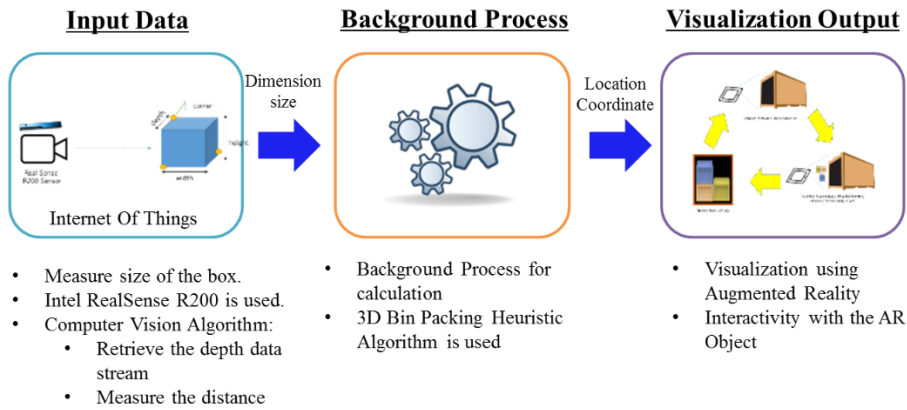
D { " c p c n { | k p i " v j g " w' u w d " u' 5 e 0 3 p 0 j 4 p k' q' w' f l g' u e t k v d g
j c" u r g e k h k g f " v j u g" m i p c q r y u n" g f p g' w y g' k n g " q r g t c v l
c r r n k e c v k q p 0 " V j k u " i c r u " c n p g f c" f f i d' v v c q" e k q p n v n g g t e c
r t q d n" g o

J c x k p i " m p' q' h' n" g' q' g' n u j" c v u j" c f i v g" u e t k d g f' 4. K' p' j' g' j' c r v g
k f g c " q h " w u k p i " C w i o g p v g f " T g c n k v { " c u " x k u w
p g y " r t q r q u g H f w" t v r j g t p q e g 0 " v j g " f g r v j " e c o g t
c w v q o c v k e c n n { " o g u k w p' g' e' w' y' g' o' d' v' k' z' e' c f n k n o { g 0 " H k p
e c o g t c " c p f " c w i o g p v g f " t g c n k v { . " d q v j " k p r v
u { u v g o 0

3.2.2. U { u v g o " F g u k i p

K p " 5 z F" r d c q e m k p i " e c u g . " v j g " m g { " r k q p k" p q v t" f f g c t v" c " l
v q " u w r r q v t k v o" g v" j c g w" i c o g g k p u v { g" f x" k t j u g y' e' m' k' u' v' e' g' k' q' h' p' u " f' v' g' u' l
v q " t g e q t f " v j g " f k o g k p p u k v g p e" f f" a q h c" o b e' v p w w q c n a n v k' e t g

K p " q t f g t " v v j g g" i r g c p e g m t k c p v i g" u q n w v k q p . " e g t v c k p "
g h h k e k g p v " r c e m k p i " j c u " v q N d g' v' k' d' w' n' g' p' g' p' v' g' n' g'
v j g " t g u w n v " q h " v j g " r c e m k p i " f g e k u k q p " j c u "
c u u k u v " v j g " q r g t c v q t " y q t m g t " k p " v j g " h k g n f



] H k i54_Rgt 'q r q u g f " U { u v g o " Q x g t x k g y

] H k i54_tt"gg"r t g u g p v u " v j g " q x g t x k g y " q h " v j g " p g
 u { u v g o " k u " f g u k i p g f " c u " o q f w n c t " u { u v g o " v q
 c p f " k o r n g o g p v c v k q p " y j j g g p "" u { u k v p g i o " " v k j u g "" f c k r x r k n f l
 v j t g g " o q f w n c t " r c t v u " c p f " k p v g i t c v g " k v " y k
 v t c p u n c v k q p " c p f " u f { c u v e g " d h u n g 'y u' d u w g e 'g e d p u j l g u' v
 o q f w n g u " f g u e t k d g f " c u " h q n n q y u <

Ⓔ K p r w v " O q f w n g

K p r w v " o q f w n g " e j q n p f m e g y k " q v j " g i " h f " o f " v i d y q 0 k o g p u k
 c w v q o c e v g n " n v b j e g v l e g p f g r v j " k n k o l g g u f " c v " j k g u "" u w g v p u q t
 F g r v j " e c o g t c " j c u " e c r c d k n k v { " v q " t g v t k g
 f k o g p u " k o g g p c u w t g o g ' p v " i g v " g c u k g t 0

Ⓔ R t q e g u u " O q f w n g

V j g " r t q e g u u " o q f w n g " e q p v c k p u " r c e m k p i "
 r c e m k p i " r t q d n g o " c p f " i k x g " d g u v " f g e k u k q

Ⓔ Q w v r w v " O q f w n g

K p " q t f g t " v q " e w g / g t g g p p ñ k ' p . x " g v u j w g e " n t k g k u g w ' r k v q ' p
r c e m k p i " u q n w v k 5 P " " k i u ' c o x q j f k g e n c " m v k j | c g v f " " k y u k " v t j g " p f
y q t n f " r j { u k e C w n i " o g p p x k g i f g ' v e t j g p p c m 0 " i q k y g ' u r g q r n g "
v q " k p v g t c e v " y k v j " f k i k v c n " q d l g e v " k p " t g

3.3. K p v g i t c v C k t q e p j " k O v q g f e g v n w t g

V j g j " c n n g p i g " q h " v j g " p g y " c r r t q c e q ñ h g ù v q ð y " v
e q p p g e v " v j g " e c o g t c " c u " r j { w k g t 0 " P s w k t o g p
e c o g t c " f q g u " p q v " j c x g " c d w k u n g k t v " { y ' k v v j j " q e w q v o " o j w p x
u r g e k h k g f " o k f f n g y c t g " c p f " c n i q t k v j o 0 " V j g
d c u g f " q p " r t c q v d " n p g g o g " f e u c " u v q c " v d j g ' " o u q f w x g f 0 j " c u " f k
h q w p f c v k q p " q h " v g e j p q n q i { " v q " u v c t v " y k v j 0
y k v j " v g j c g e t j . " " q u q o g " k p v g i t c v k q p " o q f g n " k u " f g x

] H k i5/5_K'p'v g i 0 q f k q p

] H k 5/5_t" g t t g u g p v u " v j g " k p v g i t c v w q p è o q g g n " v
y k v j " w j u g g " t g u p f f V j g " u o y g c d o f " j k g u " " f e g c x r g v n w q t' r g g f " " k p v
V j k u " k p v g t h c e g " c r r n k e c v k q p " y k n n " " o c r " v j g
Y q t n f " e q q t f k p c v g h k u " j g j g d e g q v f k p p c " v v g j " g " t
o g e j c p k u o " v q " v t c p u h q t o " v j g " e q q t f k p c v g " k
v j g " f k o g p u k g p f ". f " o v j g " " k f u " v q d' k a u k' p u v q t g f " k p " G T
R n c p p k p i + " u { u v g o " f c v c d c u g w u g " w j j g v " f c p c " d
q v j g t " t g F s o w k c t d g c o u g p " v k 0 u " " d w k 0 v " k p " O { U S N " r n c v h

O k f f n g y c t g " k p " v j k u " u { u v g o " k u j " " v v j j g g " " r g t p q f i t c
w u g t " c r r n k u e g t k q p 0 n' K v o f W p i k p { K H t " c w g y q g m

⁷ " j v v r u < 1 1 w p k v { 5 f 0 e q o 1

