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September 2014

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A growing number of executives also recognize that effective supply chain risk management can be a source of sustainable competitive advantage.

Т са а and c n n d an c а an а c a n ∟ n ab and nc a n ana n . T L n n d na c n Acc n L nc a da a n c a n а L L an 1,000 c an ac 10 nd\_ . T L a d а an ∎\_a c n d С an c a n ana b an L n an а na а , and n c n an b nd n n c a n ana n b a а n c n n a .2 L

c n А n n\_ b · a\_ а а С c a n ana n 1 canba ∟c ∟ a nab c ad an a . Acc d n P C, c an can nd c ad an a b ana c a n nc а a\_ d n ∟and anc . C an a n L c a n nc c а ac ad n а an С а a and L , ட n n а n an a a 7% С anc .  $^{\scriptscriptstyle 3}$ 

c a n a can b An ana n n d ∟ n and С L a 🖣\_ c ncad \_ n co\_ . B\_ n can n anc ∟ nab С аc b na n d\_c d - Lcd c a n nc 1\_ n (\_ n а ∖can ab а), С n n n, L and nd С n, c , and С cnn nc ann n . Man 🕔 n a na na а L c a n n b acc. ana

S\_ n b d n n n d nь c a n an n n cun - c c c a ac c b 0 d M ca. T ana c and ad ana d n dand a⊾a da а ∖ a d n nacn b\_ d c a n а ∟dc bn С С n an ann\_a L nd∖.T ∟c n a an ann\_a nd v 130 c Ln and FM Global Resilience Index<sup>4</sup> ас an dacc dn а nc 1\_ cand \_ n. Und and n a ab can a d n d c n ab ∟ са an\_ac∟n ac d ac-ba dc а cn L , and d n n a ∟n ab n n nc an n. a\_ U d n c n∟nc n ab d ana n а ca n-ba d , can n and ana n d c n ac а nι c a n nc .





Where suppliers are located and where parts or finished products are stored can enormously influence vulnerability, and consequently relative supply chain resilience.

- Offshore operations: O n, nanca ∟n a d n an\_ac∟n
   a n a ca d c n c n . Man ca n, , a n ca a , ca ∟n , and , a n ad c nd n.
- Tier 2 and Tier 3 suppliers: T c 🕔 🕞 c a n can a d a\_ ca T 2 and T 3 ட . Fa ட டnd and a T dn a ∟ 1 μ'b n and μ can can ba μ c μ nan cadd μ n. nd a ac d الما In 2009, GM n b ca\_ na cand c T 2 L nanc a d daa ∟ а а n ca а dT 1 .\_ .Ta\_a ba d n a а d c a n c nd С an .7

Т ∟ canaaa ac С n ca\_ nn.W L ca d and а n d d\_c a d can n ட n ட n c а ∟nab,andcn 🚛 n a ∟ can nc.F ∖a , ac a, n 2011,25 cn c L a d d an∟ac∟ d n a na a c n Taandan na Lc Lnab, b\_a ncana d b ac a c Ln n n, dnand,a டп ட, са n ab .8

0 dM ca'cnana nb a FMG ba dn d c n ட cand ட n.T ddanna -bd 38d c dca\_ n cn b\_ L can .Fannd שב ב, a b a d\_c -bda ana ab n\_ b a ab ca n L n L a n ட cand ட n.Eacaaba cndb ac ca and a ca c a nc∟ n n an\_b nd 🗤 .

In ac ca , 🚛 an a ( 🚛 an ab) da a ad ba a ab na ab, cn n and ann\_a ba , and cdb Lc.T L an nd L da a nd nd n d-a LC LC a In na naMin a Fi\_nd, W d Ecn cF∟, and U.S. En In a nAd n a n,a а an n na FMG babnc a n a а aь ∎\_a С с а .

In add n, da a ad a c an a cac a. F  $\cdot$  a , c d d  $\_$  db nd nd n n an . I a c a d, n a a  $q\_$  a d

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b n	- d∟nn r	na .A	,	L an nd	ւ b	a n∟	
c an a	c a,b_ ab	n La	n	d_c d	n	a a	i.
A v r	n bac - n	а	a ,nr	nc d	ad		с.
0 d M	cadn d	d	L	c and $ ``$	na c	n n	
	ca , ac	: c n	С,	🚛 a , and c a	ac	с г	
can	. Eac	-	ac	С	d :		

## Economic Factor (representing political and macroeconomic influences):

<ul> <li>GDP per capita</li> </ul>	G d c	d_cdddba ∟	an.Ta
	a L	n ancn and a	cun' cn c
	ab c	n ca a .	
Political risk	Ana n ∟ncn∟ na	ac∟n'∟nab nan,nc∟dn	canab b
Oil intensity	V∟n ab a	an c: a,d	∟n, c.

## Risk Quality Factor (based on FM Global's RiskMark database):

- Exposure to natural E n L a a n na a a d: a L a , hazard nd d.
- Quality of natural T c n na a a a d n n hazard management n n na a a d n a c ... n.
- •



A na , und and n c un -ba d u can n unc d c n ab ال ana na .l, va ,a ac an' ال a a q\_a a a a c∟ d n a ∟ n ab c∟n , a b a an∟ac∟'adan a dnd\_c∟n aa,d a c ad ∟c b, aannn ccaaacnn dab\_n n a L cand L n.

## Conclusion

Incan, L can ana nacn d da ac cnb\_ ca ancand ab.Waancacncn c  $\candann$  c n a n n a  $\q$  and n n and n bad an ana n.

In a a d\_ ac na La a a La 🖡 a and n Jaan and 2011 d n Taand, an c a d c n-a الما n cn nd n n can nc ad na n dın b\_n.Ann\_b b\_n ada cn a cancc can ana n, and L can



 $^1$  S Y.P.n. a , Ma C.H.c. b, Und and n.c.nc.  $\llcorner$  c.a.n nc, Ead 20, (2009) :// .adn .c/ca\_ud./ca\_ud. ?a c d=1789993

<sup>2</sup> Acc n \_, P R a , S \_ C a n R Mana n N a P M B \_ n b \_ On E Lad Gna a R∟nn In nnEc 100 cn,Accn∟ Rac Fnd, (J\_n 24, 2014), ://n .acc n\_ .c /n / \_ -c a n- - ana n-n -a-----b\_n -b\_-n--ad-na-a-\_n-n--n n-n-\c--100- cn-accn∟ - a c-nd.

 ${}^{3}$ S\_ can nc, PC :// . c.c  $h_{-}/n/$  - ana n/L - can - nc.

<sup>5</sup> Ic and can c رd: T c n c ac , BBC N ://n .bbc.c ر /2/ /8629623.

<sup>6</sup> IHS, Ecn c and C נח R , E n a E n Fac Ma Ha S נ Kn c -On E c G ba Ca P d\_c n, (4/17/12), :// . .c / d\_c / ba - n / nd\_ - c n c- . a v?d=1065966710

<sup>7</sup> GM n T 2 L, A N E .:// ... .a n .c / a c /20090316/COPY/303169980/ - - n - - -2- L

 $^8\,T$   $\,$  nd n  $\,$  a d d  $\,$  a  $\,$  -- and  $\,$  b  $\,$  c  $\,$  , In W d  $\,$  ://  $\,$  . n  $\,$  d.c  $\,$  / ac/2621076/a-d/-ndn-ad-d-a----and-b-c-.



