

**Projet “Identités, territoires et pratiques agricoles : des repères pour la préservation des patrimoines des communautés locales au Timor Leste”**

**Rapport des travaux 2015**



*J a C                      G a a a                      I R D*  
*D                      G a                      a                      I R D*  
*K a S a a                      U B*  
*La E a                      I R D*  
*A a P                      M N H N*  
*B a C D a                      I R D*  
  
*S a S a A a C T L*



*UMR                      I R D M N H N P a                      a                      L a H a*



**MUSÉUM**  
NATIONAL D'HISTOIRE NATURELLE

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	1)! Fouilles archéologiques et caractérisation des peintures rupestres du site d'Atekru!.....#!	
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	1) A Balibo : diversité des paysages végétaux et forêts sacrées!.....&' !	
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CONTEXTE DE LA RECHERCHE

+, ! - . / 0, ! 234526.41! 7852!9, ! 687. , ! 73: 5, ! 6//-, .814/5! , 51. , !9, !2, 6. ; 18.48! 73<18! 8: =! >. 12! , ! ?! 98!  
+ : 91: . , !, ! 93@52141: ! 7, !A, 6B, .6B, !-/: .!9, !C; D, 9/-, E, 51!-/. 1851!2: .!9, 2!F!@7, 514!; 2@1, . .41/4. , 2! , !  
- .814H: , 2!8! .46/9, 2!J! 7, 2! . , -K. , 2!-/: .!98!- . ; 2. .D814/5!7, 2!-81.4E/45, 2!7, 2!6/E E : 58: 1; 2!9/689, 2!  
8: !L4E/. !M.4, 5189!N!06/5D, 514/5!24! 5; , !-/: .!) \* &PQ) \* &\$R!  
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<5!) \* &!) !, !) \* &P!5/: 2!8D/52!1.8D8499; !- .4564-89, E, 51!7852!98! . ; !4/5!7, !S894T/!0/: , 2!17: !-8U2R!2: . !  
9, 2!6B. /5/9/14, 2!6: 91: . , 99, 2@98!1, . .41/.4894!; !, !19, 2! : 28! , 2!7, !93, 5D4. /55, E, 51!8564, 5! , !1861: , 9@8D, 6!  
-/: .! /T0, 6!4V2!J!  
073; 18T94. !98!1.8E, !6B. /5/9/14H: , !7, !93/66: -814/5!B: E845, !7852!9, 2!W/5, 2!47, 514V4; , 2!-/: .!6, !1, !  
. , 6B, .6B, @!  
Q! 7347, 514V4, . ! 9, 2! 94, : =@ 241, 2@ 6/558422856, 2@ B421/4. , ! , ! 8: 1. , 2! ; 9; E, 512! H: 4! . , 52, 4! 5, 51! 9, 2!  
47, 5141; 2! , !1! , . .41/4. , 2@!  
Q! 7, !7426: 1, . !9, 2! ; 9; E, 512!- /1, 514, 99, E, 51!45D, 2!42!73: 5, !74E, 524/5!-81.4E/5489, !-/: .! . ; V9; 6B4. !?!  
9, : .!- . ; 2. .D814/5! , !D89/.42814/5@!  
Q! , ! , 5V45! 7, ! -8.1464-, . ! ?! 98! V/. E814/5! 7, ! 6/998T/ .81, : . 2! D/9/5184. , 2! 9/68: =! -/: .! 6/E-9; 1, . !  
9345D, 5184. , @98!- . ; 2. .D814/5! , !98!E42, ! , 5!D89, : .!7: !-81.4E/45, !6: 91: . , 9!5814/589!!  
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>! 98! V45! 7, ! ) \* &P@ 5/: 2! 8D/52! - . /2- , 61; ! 738: 1. , 2! W/5, 2@ 8V45! 738D/4. ! 7, 2! ; 9; E, 512! 7, !  
6/E-8.842/5!7852! : 5, !74D, .24!; !7, !E494, : =!J!93X9, !73>18: . /!8: !5/.7!8!; 1; !- . /2- , 61; , @84524!H: , !98!  
6Y1, !2: 7!7: !L4E/. ! / .4, 5189!!  
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<5!) \* &! !: 5, !7, E857, !7, !6/998T/ .814/5!7, !93MZ [!L4E/. !>47!07852!9, !687. , !7, !9, : .!- . /0, !1V45856; !  
-8. !98! V/57814/5! \.452! +98: 2R! 2: . !9, 2! 1B; E814H: , 2! 7: !- . /0, !14541489! 5/: 2! 8! 8E, 5; 2! ?! ; 1, 57. , !  
938-- . /6B, !? !98! . ; !4/5!7, !] : 84@8: !2: 70/: , 2!17: !-8U2!@!238!422841!738-- . ; 64, .!9, 2!6/52; H: , 56, 2@8: !  
-985!-81.4E/5489@7: !- . /0, !1L4E/. ! [ 8-@D821, !- . /0, !17, !7; D, 9/-, E, 51!-; 1. /94, .@7, D851!457: 4. , !9, !  
7; -986, E, 51!73B8T41812!, !1938W, 61814/5!7384. , 2!1.87414/55, 99, 2! ?!7, 2! : 28! , 2!457: 21.4, 92! ^38-- . /6B, !  
23, 2! ; !89, E, 51! ; 1/W; , ! 8D, 6! 93; 1: 7, ! 7, ! 938! . /T4/74D, .24!; ! 8564, 55, ! , ! 861: , 99, ! 7852! : 5, !  
-, .2- , 6!4D, !7, !D89/ .42814/518: !- . /V4!17, 2!-/:- : 9814/52!9/689, 2!0-8.1464-814/5!7, !^8: . , !<E-, .84. , R!!  
!

>D, 6!93, =-, .142, !7, !9\_` aA! \89/6!@AC0aZbZ!7852!6, 2!7/E845, 2@, !17, 2!6/E-; 1, 56, 2!264, 514V4H: , 2!  
7; 2/. E842!; 98. !4, 2@ 5/: 2! - . /- /2/52! : 5! - . /0, !1-49/1, !H: 4! - . , 55, ! , 5!6/E-1, !24E: 9185; E, 51!9, 2!  
74E, 524/52! 581: . , 99, 2! , !16: 91: . , 99, 2! 7, 2! -81.4E/45, 2!-/: .! - . /- /2, .!7, 2!D/4, 2!7, !6/52, .D814/5!  
7: .8T9, 2!4E-94H: 85!9, 2!6/E E : 58: 1; 2!9/689, 2! , !1, 5D428! , 85! !? !9, : .!8D8518! , !9, 2! . , 1/E T; , 2!7, 2!  
1.8D8: =!7, !. , 6B, .6B, "!!  
!

) \* &c!D/4!84524!98!-/: .2: 4! , !7, !6, 2!1.8D8: =!2: .!9, 2!-81.4E/45, 2!6: 91: . , 92!, !1581: . , 92! ?! ] : 84@S894T/!  
 , !! >18: . /! @2! /-K. , 5!18: 224! 7852!9, !687. , ! 73: 5, ! 6//-, .814/5!1.4-8.141, !d.856, !e! L4E/. ! ^, 2! , !e!  
S. ; 249@8D, 6!J!  
Q! 93866: , 49! 73: 5, !7/61/ .851, !T. ; 2494, 55, !7, !9\_` 54D, .24!; !7, !] f/! \8: 9/@ S. : 558! +. , 2-4@ 4526.41, !8: !  
aZbZ! , !1V45856; , !-8. !93@AC!2: .!9, !1, . .845!14E/ .842!06/5D, 514/5!7, 5687. , E, 51!7, !1BK2, R!g!  
Q! 9\_ .2H: 422, !7\_ : 5, !6/998T/ .814/5!8D, 6!9, !7; -8.1, E, 51!7\_>51B. /- /9/14, !7, !9\_` 54D, .24!; !7, !S.82!948@  
D48!98! -8.1464-814/5! 7, ! i , 99U! 78! ] 49D8! 0851B. /- /9/1 : , !2-; 6489421, !7, !L4E/. Q^, 2! , R! 2: .!9, !1, . .845!  
7\_>18: . /!  
!

\8. !8499, : .2@ : 5, !6/5D, 514/5!7, !6//-, .814/5!8D, 6!93MZ [!L4E/. !>47!8!; 1; !24! 5; , !V45!) \* &c! ^3; H: 4-, !  
23/ .4, 5! , !D, .2! 7, 2! /-; .814/52! 7, !D89/ .42814/5! 7, 2! - . , E4, .2! . ; 2: 91812! , 5! 6/56, .814/5! 8D, 6! 9, 2!  
-/:- : 9814/52!9/689, 2@, !1D, .2!98! . , 6B, .6B, !7, !V45856, E, 512!, =1; .4, : .2!- . . E, !185!17, !-; . , 5542, .!9, 2!  
- . , E4K. , 2!8614/52!, 518E; , 2"!!  
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` 5, !V/. E814/5!1B; / .4H: , !, !1- .814H: , !8: =!1, 6B54H: , 2!7, !. , 6, 52, E, 51@7, 26.4-14/5! , !; D89: 814/5!7: !  
-81.4E/45, !8.6B; /9/14H: , 2!/5!1; 1; !6/57: 4!2!-8. !j"0+! [894-8: 7! ?!k, E822, !, !>18: . /!7852!9, !687. , !  
7, !5/1. , !6//-, .814/5!8D, 6!9, !] , 6. ; 18.48! 73<18! 8: =! >. 12! , ! ?! 98! +: 91: . , !7: !L4E/. QM.4, 5189! +, !1, !  
V/. E814/5!2, !-/: .2: 4D.8! , 5!) \* &#!  
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**DATES DES OPÉRATIONS DE TERRAIN 2015**

**Région de Suai (district Covalima)**

a4224/52! 7, !1, .. 845! 7: ! ) \*! c! ) \* & c! 8: ! ) #! c! ) \* & c! ! C! [ : 4998: 7@ ^! < E -, . 84. , @ j"0+! [ 894-8: 7@ S!  
+ . , 2-4!0@ACR!  
!

**Région de Balibo (district Bobonaro)**

a4224/52! 7, !1, .. 845! 7: ! & ) ! & & ! ) \* & c! 8: ! & #! & & ! ) \* & c! ! C! [ : 4998: 7@ ^! < E -, . 84. , !0@ACR@ > ! \; H: 4! 5/! 1!  
0a ZbZR!  
!

**Région de Vemasse (District de Manatuto)**

a4224/5! , !1V/ . E 814/5! 8: =! 1, 6B54H: , 2! 8. 6B; /9/14H: , 2! 9, 2! ) ( ! , ! 1P\* I \* \* I ) \* & c! 8: ! V/ . ! 17, ! k, E 822, "lj"0  
+! [ 894-8: 7! , ! 1; H: 4- , ! 7: ! 7; -8. 1, E, 5! 18. 6B; /9/14, ! 7: ! ] < > +!  
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**Région d'Atauro (District Dili)**

Q! a4224/5! 7: ! ) % ! c! ) \* & c! 8: ! P\* I #! ) \* & c! ! C! [ : 4998: 7@ ^! < E -, . 84. , @ j"0+! [ 894-8: 7! 0@ACR!  
Q! a4224/5! 7: ! % ! 8: ! ) c! 8/m! 1! j"0+! [ 894-8: 7! 0@ACR@ A! i 45821/5! 0` 54D! M18! /R@ ^! ] E41B@ d! > T494/! 78!  
] 49D8! 0] ] > + R! \ , . 2/55, 9! 9/689! ! ^: 42! 7, ! > . /0/@ + / . 5, 94: 2! ] : 8. , 2@ a/2, 2! 78! ] / : 28@ \ 8: 9! 78! ] 49D8@  
j/8n4E! 78! ] / : 28@ [ 81. 8n4! 78! ] 49D8@ ] 8E : , 9! > 9D, 2@ j/2, ! ] : 8. , 2@ \ 8. 8n, ! 78! ] / : 28!  
Q! a4224/5! 7: ! & % ! & & ! ) \* & c! 8: ! ) % ! & & ! ) \* & c! ! C! [ : 4998: 7@ ^! < E -, . 84. , @ j"0+! [ 894-8: 7! 0@ACR@ > !  
\ ; H: 4! 5/! 1! 0a ZbZR@ i "78! ] 49D8! 0` 54D, . 241; ! 7, ! S. 82h948R"!!  
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**NATURE DES TRAVAUX**

^8! 68. 1/! . 8-B4, ! 7, 2! E 842/52! 286. ; , 2! /- ; , ! , 5! ) \* & ' ! ?! -8. 14. ! 7, ! 7/6: E, 512! G Ea ! , ! 1!  
73, 5H: o1, 2! 7, ! 1, .. 845! 8D841! ; 1; ! , E42, ! , 5! 5/D, E T. , ! ) \* & ' ! 8: =! . , 2- /528T9, 2! D4998! , /42! 7, ! b/9T, 942@  
, ! 19, ! 1. 8D849! 23, 2! - /- : 2: 4D4! , 5! ) \* & c! 7, ! 7, : =! V8p/52! 74W; . , 51, 2! 1!!  
Q! ^ 3; H: 4- , ! 8! - /- : 2: 4D4! 2, 2! - /- 2- , 614/52! 2: . ! 9, 2! 18564, 52! 241, 2! H: 4! -8. 1464- , 51! 7: ! 1, .. 41/4. , ! D4998! , /42!  
861: , 9@ 84524! H: , ! 9, 2! , 51. , 14, 52! 2: . ! 98! 581: . , ! 7, 2! E 842/52! 94! 581 K. , 2@ 9, : . ! / . 4! 45, @ 9, : . 2! V/5614/52! g!  
2: . ! 9347, 514V46814/5! 7: ! -81. 4E/45, ! 7, 2! 6/E E : 58: 1; 2! 9/689, 2! 1, 9! H: , ! - , . p: ! -8. ! 6, 99, 2064! 08-- . /6B, !  
-8. 1464-814D, R"!  
Q! C, 2! . ; 6412! /5! ! ; 1; ! 6/99, 6! ; 2! 2: . ! 6, . 18452! 241, 2! 8564, 52! 0d, 128q8R! , ! 2: . ! 9, 2! E U1B, 2! H: 4! U! 2/51!  
. 81186B; 2"!  
Q! : 5! 5/ : D, 8: ! D/9, ! 18! ; 1; ! 6/57: 4! 12: . ! 938! . /T4/74D, . 241; ! g! 49! 8! 6/52421; ! , 5! , 51. , 14, 52! 2: . ! 9, 2! -9851, 2!  
8564, 55, 2! , ! 861: . 99, 2@ 2: . ! 9, 2! 28D/4. 2! 822/64; 2! ?! 6, 2! -9851, 2@ , 5! D4241, 2! , ! 9, D; 2! 7, ! 6B8E -2@  
45D, 5184. , 2! 7, ! -9851, 2! 6: 9! 4D; , 2@, 51. , 14, 52! 2: . ! 9, 2! 41: , 92! 8! . 84. , 2! , ! 19, 2! 8: 1, 92"!!  
Q! \ 8. 899K9, E, 51@ S. : 558! + . , 2-4! 8! , W, 6! : ; ! : 5! 1, .. 845! 7, ! H: 81. , ! E/42! , 51. , ! E 84! , ! 18/m! ) \* & c! 2: . ! 9, !  
1, .. 845! 7, ! ] : 84@ , ! 16/57: 4! 1: 5! 8: 1. , ! 1, .. 845! 7, ! 7; T: ! 17; 6, E T. , ! ?! V; D. 4. . ! ) \* & # @ , 51. 8D849985! 12: . !  
9, 2! . , - ; 2, 51814/52! 19/689, 2! 7: ! 286. ; ! , ! 12: . ! 98! 1, 2! 14/5! 7: ! 1, .. 41/4. , ! 6; . ; E/54, 9! 7, 2! 6/E E : 58: 1; 2!  
7, ! b/9T, 942! , ! d81: 4245@ 84524! H: , ! 2: . ! 9, 2! 6B85! , E, 512! 8-- / . 1; 2! ?! 93/ . ! 8542814/5! / . 4! 45, 99, ! 7, 2!  
2/64; 1; 2! , ! 7, ! 9, : . ! , 2-86, ! -8. ! 9, 2! 8E : 58! , E, 512! 457: 2! . 4, 92! , 5! 6/ : . 2! 0- . /0, ! - ; 1. /94, . R"!!  
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**RÉGION DE BALIBO**

Q! ^, 2! . , 6B, . 6B, 2! 8. 6B; /9/14H: , 2@ 6/57: 4! , 2! 7, - : 42! ) \* & P@ /5! ! ; 1; ! 6/5286. ; , 2! 6, 11, 1855; , 2! ?! 93; 1: 7, !  
7, 2! . ; 2: 91812! , ! ?! 98! - : T946814/5! 84524! H: 3? ! 98! . , 6B, . 6B, ! 7, ! 5/ : D, 8: =! 241, 2! - /- : . ! 8W45, . ! 98!  
6B. /5/9/14, ! 7; 0? ! ; 18T94, " !  
Q! < 5! -8. 899K9, ! 8D, 6! 9, 2! . , 6B, . 6B, 2! 8. 6B; /9/14H: , 2! 5/ : 2! 8D/52! - /- : 2: 4D4! , 5! ) \* & c! 9, ! 1. 8D849! 2: . !  
93B421/4. , ! 7, 2! E 842/52! 94! 581 K. , 2! 7, ! 98! W/5, ! 7, ! S894T/"!!  
Q! Z/ : 2! 8D/52! 7852! 6, 11, ! - , . 2- , 614D, ! 45218: . ; ! : 5! 7489/! , ! 8D, 6! 9, 2! . , 2- /528T9, 2! 6/ : 1: E4, . 2! 8V45!  
73/ . ! 8542, . ! , 5! 0: 499, ! 1! ) \* & # @ 8D, 6! 9, : . ! 6/52, 51, E, 51! , ! 12, 9/5! 9, 2! - . /6; 7: . , 2! . 41: , 99, 2! H: 3492! 8: . /51!  
, : =! Q E o E, 2! 7; V454, 2@ 9, ! . , 6: , 49! 7, 2! 28D/4. 2! 2: . ! 93B421/4. , ! 7, 2! E 842/52! 7, ! S894T/! , ! 12: . ! 93/ . 4! 45, !  
E U1B4H: , ! / : ! B421/ . 4H: , ! 7, 2! -9851, 2! 6: 9! 4D; , 2! + , 11, ! 7; E 8. 6B, ! 8! . , H: 42! -9: 24, : . 2! . ; : 54/52! - /- : . !  
, =-94H: , . ! 8: =! 6/E E : 58: 1; 2! 9/689, 2! 98! 7; E 8. 6B, ! - . /- /2; , ! , ! 17426: 1, . ! 7, ! 93451; . o! 17, ! 6, ! 6: , 49"!!

Q! C38: 1. , 2! 241, 2! 94; 2! ?! 93B421/4. , ! /: ! ?! 938. 6B; /9/14, ! 7, 2! 6/E E: 58: 1; 2! /51! ; 1; ! . , 6, 52; 2! , 1! - /: . ! 6, . 18452!D4241; 2!0241, 2!V/. 14V4; 2!7, !d81: !^: 94n@a/. 418: @C: 8!d81: n@]854. 45R!

Q! >: ! -985! 7, !98! 6/558422856, ! 7, !98! T4/74D, . 241; @: 5! 7; T: ! 17, !68. 861; . 42814/5! 7, 2! 8. T. , 2! - . ; 2, 512! 2: . !9, 2!241, 2!286. ; 2!/: !7852!9, 2!V/. o12!286. ; , 2!8!; 1; !E, 5; !C, : =!241, 2!7, !V/. o1!286. ; , !/51!; 1; !D4241; 2! 0L8B8! ^81: 5! , ! a/. 418/R! 8D, 6!9, ! . , 6: , 49! 7, 2! 74W; . , 51, 2!68. 861; . 4214H: , 2! , 1! ; 9; E, 512! 7, 2!241, 2@U! 6/E - . 42!9, 2! . 41: , 92!H: 4!23U!7; . /: 9, 5!@ - /: . !: 5, !6/E - . ; B, 524/5! 7, !98!V/5614/5!, !17, !93B421/4. , !7, !6, 2! V/. o12!7852!98!2/64; 1; ! , !17852!9, !-8U281 , "!!

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**REGION D'ATAURO!**

^, 2! - . , E4, . 2!1. 8D8: =!7; T: 1; 2! -8. !: 5, ! - . /2- , 614/5! ; 1, 57: , ! , 5! ) \* &P! 7852! 6, 11, ! . ; 14/5! 2/51! 7, ! 581: . , !8. 6B; /9/14H: , ! <5! ) \* &' @98!V/: 499, !7, !938T. 4! ^, - : !i 458! ?! > . 9/!8! ; 1; ! , 518E; , !185742!H: , !9, 2! - . /2- , 614/52! /51! ; 1; ! - /: . 2: 4D4, 2@94D. 851! : 5! 2, 6/57! 8T. 4! ?! >1, n. : ! <5! ) \* &c@ 6, ! 8T. 4! / . 5; @ >9, 14! L: 5: !S4T4@8! ; 1; !V/: 499; !7852!9, !687. , !7, !5/1. , !-8. 1, 58. 48!18D, 6!9, !] , 6. ; 18. 48!173<18118: =!> . 12! , !1?!98! +: 91: . , !?!C494"!!

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^3/T0, 614V! - . 4564-89! 7, 2! . , 6B, . 6B, 2! 8. 6B; /9/14H: , 2! , 5! ) \* &c! ; 184! 73; D89: . , !938564, 55, 1; !7, !938T. 4! 73>1, n. : @ 7, !781, . !9, 2! - , 451: . , 2! : - , 2! , 2! , !173; 1: 74, . !9, 2!6/57414/52! 7, !28! - . ; 2, . D814/5! +, !- , 141! 8T. 4! , 2!14E - / . 185!173: 5! - /451! 7, !D: , !B421/. 4H: , !68. !49!6/514, 5!17, 2! - , 451: . , 2! : - , 2! , 2! , 5! . /: ! , ! , 1! 5/4. !@! /V. , !7, !6, !V84!@, 5! -9: 2!7, !2/5!451; . o1!B421/. 4H: , @: 5! - /1, 514, 9! /: . 4214H: , ! - /: . !9, !D49981 , "!

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^8! E4224/5! 7, ! E84! ) \* &c@ 822/64851! 8. 6B; /9/14, @ , 1B5/T/1854H: , ! , !1 ! ; /1 . 8-B4, ! 8! - , . E42! 7, ! . , 6, 52, . !9, 2! - . , E4, . 2! ; 9; E, 512! - /: . !98! . , 6/558422856, ! 7, !938! . /T4/74D, . 241; !2: . !98! 6Y1, ! /: . 2!1 0>1, n. : @i 41894@ >78. 8@ > . 9/R!C, : =! . 8572!D/9, 12! /51! ; 1; !8T/ . 7; 2@ 6, 9: 4! 7, !98! 74D, . 241; !861: , 99, !7, 2! -9851, 2! 6: 914D; , 2! , !1 6, 9: 4! 7, 2! -9851, 2! 8564, 55, E, 51! : 14942; , 2! 7852! 9.894E, 51814/5! ^8! E4224/5! 8! ; ! 89, E, 51! - , . E42! 7, ! . , - ; . . ! 934E - / . 1856, ! 7, ! 6, . 18452! . ; 6412! 7, ! 98! 1. 87414/5! / . 89, ! - /: . ! 98! 6/E - . ; B, 524/5! 7, !93/ . 18542814/5! 2/6489, ! , !11, . . 41/ . 489, !7, !9389, "!!

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^8! E4224/5! 7, ! 5/D, E.T. , ! ) \* &c@ E, 5; , ! 6/50/451, E, 5! 8D, 6! 93851B. / - /9/1: , ! i , 99U! 78! ]49D8@ 1. 8D849985! 2: . !9, 2! ; 6/5/E4, 2! 7/E, 2!4H: , 2! , ! , 5! -8. 146: 94, . !9, ! . Y9, ! 7, 2! V, E E, 2@ 8! - , . E42! : 5! 7489/1: , !-9: 2!8 - - . /V/574!8D, 6!9, 2!6/E E: 58: 1; 2! ^, 2! ; 6B85! , 2!8D, 6!9, 2!B8T418512! /51! - , . E42! 7852! 98! 6/E E: 58: 1; ! 73> . 9/!9, ! . , 6: , 49! 7, 2! . , - ; 2, 51814/52! 9/689, 2! 6/56, . 585! 9, !1, . . 41/4. , !04569: 851! 93: 1: 7, ! 7, 2! 1/ - /5UE, 2! , ! 938589U2, ! 7, 2! ; 6412! 81186B: 2! 8: =! 74W; . , 512! 94, : =! H: 4! 6/52141: , 5! 1 6, ! 1, . . 41/4. , R! , !19, 2! -9851, 2! 6: 914D; , 2! +, ! 7, . 54, . !1BKE, !84524! H: , ! 6, 9: 4! 7, 2! - /422/52! -o6B; 2! - /: . ! 9.894E, 51814/5! H: /1474, 55, ! /: !98! D, 51, ! /51! ; 1; ! 499: 21. ; 2! -8. !: 5, ! 2; . 4, ! 7, ! 7, 22452! . ; 8942; 2! -8. ! >51, . /!7, !> . 8: 0/@B8T41851!7, !> . 9/"!!!

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C: . 851! 6, 11, !E4224/5@98! . ; 14/5! 7, !a8n8787, !8! ; ! 89, E, 51! ; 1; !D4241; , ! , !: 5! . , 6: , 49! 7, !98! 1. 87414/5! / . 89, ! , !17, !93B421/4. , !8! ; 1; ! , 518E; !C852!9, !24998! , !7, !6, 2!45V/. E814/52@ -9: 24, : . 2!241, 2!7; V, 524V2! /51! ; 1; !D4241; 2! , ! . , 9, D; 2!0i /18!@4@ < . 9, 14! ?! a8n8787, @@451 : . 8! ?! L/519/. UR! Z/1. , ! - . ; 2, 56, ! ?! a8n8787, ! 9/ . 2! 7: ! E8. 6B; ! B, T7/E8784. , ! 7: ! E, . 6, 74! 8! ; 1; !9/66824/5! 7\_ 5, ! -8. ! 17, ! . , 9, D, . !9, 2! - . /7: 412! 81 . 46/9, 2! 6/E E, . 648942; 2@ 738: 1. , ! -8. 1! , ! 2: . 1/ : 1@ 7, ! 6/E - . , 57. , ! : 5, ! , = - . 4, 56, ! . ; 6, 51, ! 7, ! D89/ . 42814/5! 7, 2! -81. 4E/45, 2! 0D855, . 4, ! , !142281, ! 7, ! a ! , 5! V4T. , 2! 7, ! C a a ! 8D, 6! : 5, ! . , 6/52141: 14/5! -8. !1. /42!V, E E, 2!r! ; , 2!7, 2!28D/4. 2!8564, 52!822/64; 2!8: !142281 , ! , !198! E42, ! , 5! -986, ! 7\_ 5, ! V494K. , @ , 56/ . , ! E/7, 2! , @ 7, ! 6/E E, . 648942814/5! C, : =! , 51. , D: , 2! 8: - . K2! 7: ! - . /V, 22, : . ! 7: ! D49981 , ! , !17: ! . , 2- /528T9, !7, !D49981 , !/51! ; 1; !E, 5; , 2!2: . !9. 8! . /T4/74D, . 241; ! , !19, 2!28D/4. 2!822/64; 2!

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^, ! -8. 6/ : 2! ?! -4, 7! 7, !74W; . , 512! 2, 514, . 2!0> . 9/QS, 9/4@L/519/. UQ>1, n. : @ >78. 80> . 9/R! , !19, !1. 80, !1, 5! D/41: . , !5/ : 2! /51! ; ! 89, E, 51! - , . E42! 7, ! E4, : =! 6/E - . , 57. , !98! 21. : 61: . 814/5! 7, 2! ! . 857, 2! : 541; 2! 7: ! -8U281 , !9/689! , !17, !9. 4E -861! 7, 2! 8614D41; 2! 851B. / -4H: , 2@ , 5! -8. 146: 94, . !7, 2! 1. /: - , 8: =! 7, ! 6BKD. , 2@ 8: 0/ : . 7\_B: 4! ; . ; 2! 2/ : 2! V/ . E, ! , =1, 524D, ! /: ! 18: !9/5! 17, !9. 855; , "!

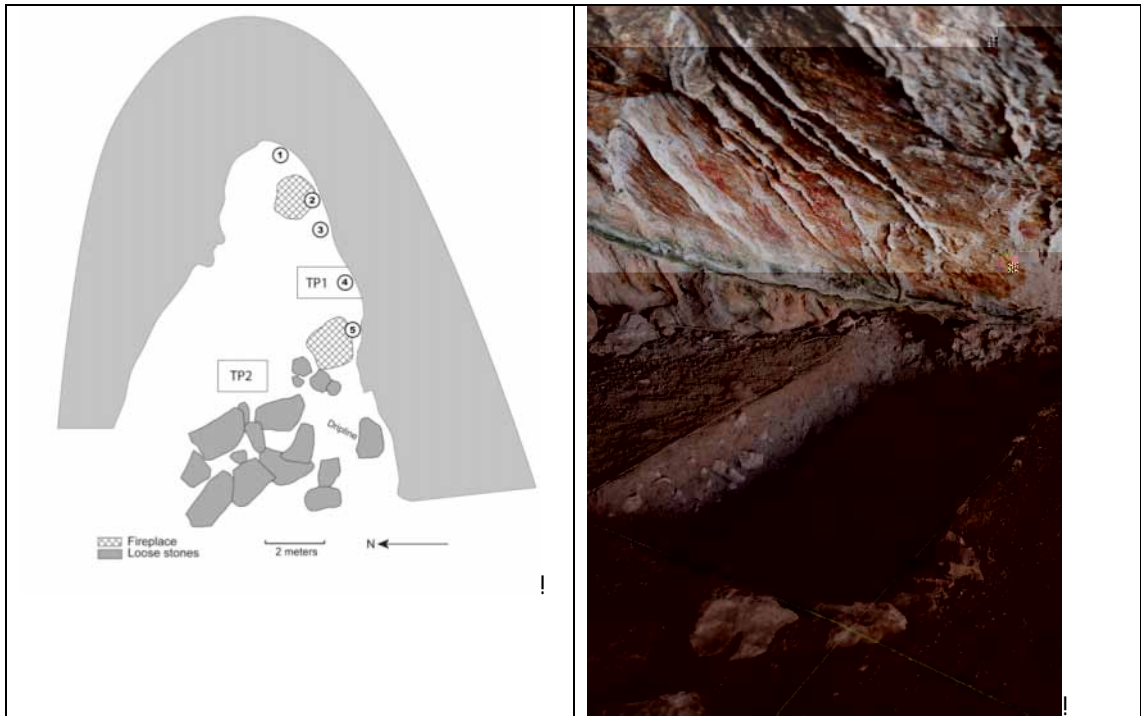
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Archéologie, histoire des espaces et des pratiques

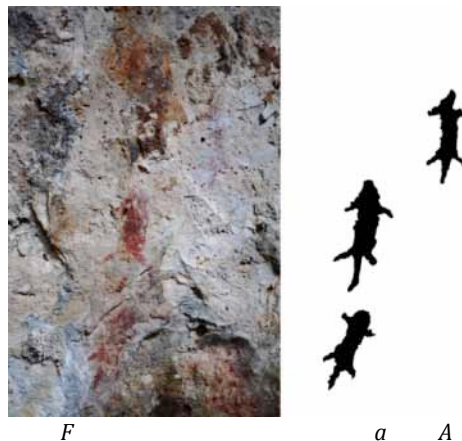
Objets archéologiques et caractéristiques des pratiques domestiques du site d'Ateku

C, : =! 2/578I, 2! 8.6B;/9/14H: , 2! 73, 5D4./5! )E! =! &E! /51! ;1;! 6/57: 412! 0: 2H: 38: ! -9856B, .! 21898I E414H: , !7, !938T.4!C852!9, !2, 6/57!2/578I, @ - .K2!7, !93, 51. ; , @ -9: 24, : .2!/66: -814/52!/51! ; 1;! E42, 2!, 51; D47, 56, !-8. !7, 2!; 69812!73/T2474, 55, !, !17, !249, =!E842!8: 224!7, 2!6/H: 49981, 2"!!



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^8!781814/5!7, !-9: 24, : .2!V.8I E, 512!7, !T; 5414, .!4574H: , !H: , !6, !18T.4!8!; 1;! 14942; !-/: .!981-. , E4K. , ! V/42!49!U!8!&%\*\*\*!852@ - : 42! . : 14942; !49!U!8!, 5D4./51%\*\*\*!852"!^, !54D, 8: 18.6B;/9/14H: , !9, !-9: 2! . ; 6, 51@ 8D, 6!7, !98!-/1, .4, @781, !7349!U!8!&\*\*\*!852"!C, 2!V.8I E, 512!73/6. , !./: 1, !, !173/6. , !08: 5, !7852!9, !54D, 8: ! E/U, 5!2: ! !K. , 51!: 5, !781, !73, 5D4./51%\*\*\*!852!-/: .!9, 2!-, 451: . , 2! . : -, 21. , 2"!!

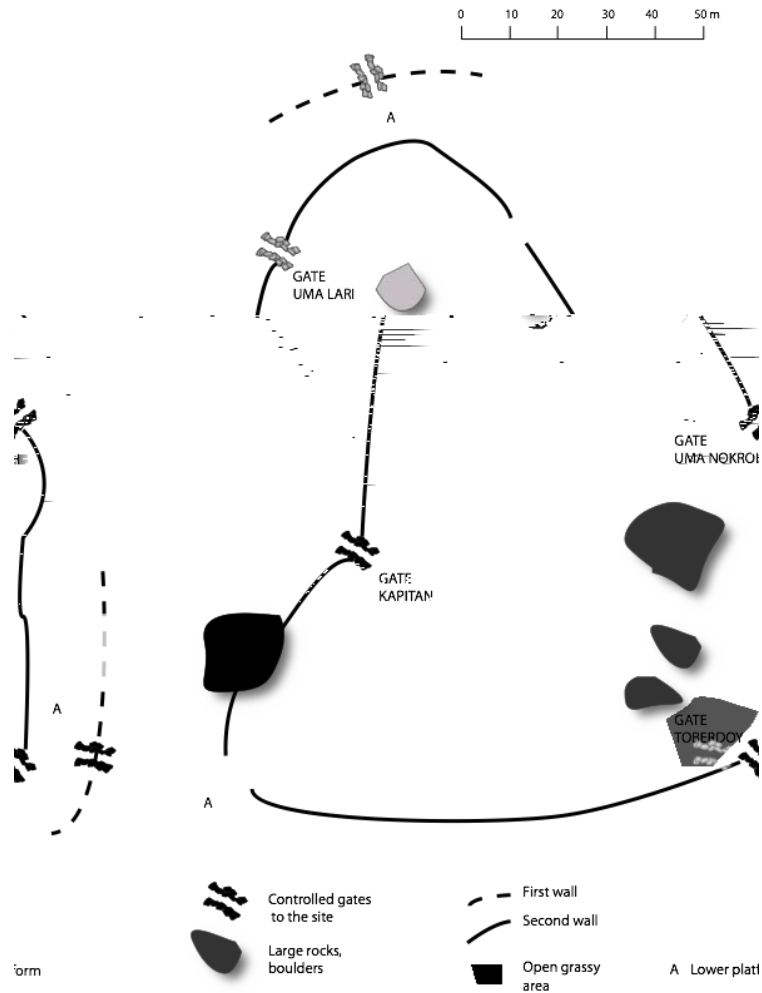


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^8!-9: -8.1!7, 2!-, 451: ., 2!2/51!E/5/6B./E, 2@, 5!./: I, !E842!: 5!, =, E-9, !8: !E/452!7, !-4! E, 51!5/4.!  
 , 21!-.; 2, 51!^, 2!E/14V2!/51!; 1! ./: -; 2!-8.!-855, 8: =!0c!8: !1/189R!-/: .!V864941, !98!7, 26.4-14/5!, 1!  
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 /: ! 7, !-/4512! H: 4! 2: 4D, 51! -8.V/42! 9, 2! .: T852! 7, ! 689641, " ! ^, 2! 2, : 92! 7, 22452! , 5! 5/4. ! 2/51! 7, : =!  
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**2) Detifctiorde sites historiqs ouxhéologiqs**

^, 2! , 51., 14, 52! 2: 4D42! 7, ! -./2-, 614/52! /51! -, .E42! 7, ! 9/68942, .! -9: 24, : 2! 5/: D, 8: =! 241, 2!  
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F C a GPS K a l M a a a +, !241, !2: .! : 5!E8224!1689684., !, 21!7/6: E, 51; !  
 -8.198!1.87414/5!/.89, !@!, 21!7/1; !73: 5, !7/: T9, !, 56, 451, @93, 56, 451, !, =1; .4, : ., @; -/: 2851!-8.!, 57. /412!9, 2!-8. /42!  
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F C a GPS I a T M a a !+, !241, !8: !2/EE, !173: 5!., 94, V!  
68%684., !-.: 2, 51, !: 5, !7/: T9, !, 56, 451, Q93, 56, 451, !, =1; .4, : ., !; 1851!-, : !D424T9, !C, : =!-/ .1, 2!0-82281, 2!, 51., !  
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 , =1; .4, : ., 2!0-9851, 2!7: !7/E845, !-8-/: !6/E E, !T8585, 2!6855, !?2: 6, !, 16!73: 5!6Y1; !q! -9851, 2!7: !  
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 7; T: 12!7, !9381.46: 91: ., !-./- ., E, 5!1741, "!!  
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Q! ^ 5, !8: 1, , !-B82, !D/4!19, 2! -/-: 9814/52!7, !98! .; !4/5! .; : 54, 2!2: .!H: , 9H: , 2!E8224V2!7; V, 524V2!1, 9!S84!  
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 6/ . ., 2-/57841?!: 5!E/7, !7: .8T9, !/: !1, E -/.84, !73; 18T9422, E, 5!1!!  
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! Q! ^ 5, !-B82, !: 91; .4, : ., !D/4!74W; ., 51, 2!E842/52!94!58!K. , 2!/ .4!4584. , 2!7, !6, !24!, !4541489!7, !S84!>2!  
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Q! ^8! -B82, !2: 4D851, !6/ . ., 2-/57!8: !E/E, 5!17, !98!6/9/542814/5!93/66: -814/5!457/5; 24, 55, !/t!9, 2!  
 -/-: 9814/52!2/5!1. , !. /: -; , 2!7852! : 5!6, 5! ., !D4998! , /42!, !19, !9/5!17, 2!D/4, 2!7, !6/E E: 546814/5!^, 2!  
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2) >!Suai!98!2: 66, 224/5!73/66: -814/52!2, !94!6/E E, !98!7, 26, 51, !- . /1 ., 224D, !7, 2! -/-: 9814/52!7, !  
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 -8. !>58n9, 1: !>E8.89!?!d81: !@245!0E84!) \*&cR! !9, !. ; 64!E, !1, 5!26K5, !7, 2!F!- .456, 22, 2!N!1422, .857, 2!  
 7: !T/. 7!7, !E, . !?!d, 128q8!8: !2: 7!7, !S, n/!08: 0/: .7B: 4! : 5, !D821, !98! : 5, !, 5!E85! . /D, R!+ , 2!  
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 7, 2!1422, .857, 2!185742!H: , !6, 2!7, .54K, .2!6, 5!1, .1/: .!6, 5D/4, 51!: 5, !D8! : , !E8.45, !7/5!19, 2!, 8: =!  
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v!a85: !^4E8!Z: T878!?!7, : =!n49/EK1, .2!7: !T/.7!7, !E, .!, !!, 5!T/.7: ., !73: 5!6/: .2!73, 8: !  
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 7, 2!, .21, 2!7, !6; .8E4H: , 2!6B45/42, 2!7, 2!1, 22/52!7, !-/1, .4, 2!9/689, 2!7, 2!1.86, 2!7, !2; -: 91: ., 2!6, !1!  
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v!^, !F!D4, : =!b/9T, 942!N! /66: -851!: 5! E8224!689684, .!7; V, 524!7, 2!-, .E4, .2!6/51, V/.12!?!  
 H: , 9H: , 2!nE!7, !98!6Y1, !2, .84!1: 518564, 5!; 18T9422, E, 51!1, 1: E!045V/. E814/5!7, 2!S: 58HR"!!

v!^, !241, !861: , 9!7, !b/9T, 942!7852!: 5!-8U28! , !/: D, .!17, !-9845, !, !1, 5!T/.7: ., !73: 5!6/: .2!  
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 7, !7; D, 9/-, .: !?16, !1, 57. /4!7, 2!6: 91: ., 2!7, !6/1/5"!!  
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!^, 2!8. .4D; , 2!7: !! ./: - , !T: 58H!2, ET9, 51!., .9814D, E, 51!.; 6, 51, 2"!^, 2!1, 1: E!045V/. E814/52!7, !j/. !, !  
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 7: !D4, 49!b/9T, 942!, !18: 224!?!: 5!8564, 5!241, !1, 1: E!06V!-9: 2!B8: 1R"!  
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3) >!Atauro!9, 2!45V/. E 814/52!., 6: , 4994, 2!2, !. 851, 51!7852!74W; ., 512!., !421., 2!  
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!./11, 2!-/: .!; 6B8--., !8: !V, : !73: 5!2/9, 49!T, 8: 6/: -!-9: 2!6B8: 7!H: 38: 0/: .73B: 4!0>.9/R!., 16"!!  
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7, 22: 2!7, !938T.4!V/: 499; R!, !1: 5!8D, 5!8: !2/E E, !17: !E8224!73!48.8!., 16!^, 2!2, 52!7, !6, 2!.; 6412!., 2!, 51!  
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 6B8H: , !E842/5!, !12, 2!6B8E-2!89, 51/: .!6/52141: 841!; 5, !: 541; !7, !D4, !17/E, 2!4H: , !xR"!!  
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>!Atauro@98!1, 51814D, !V841, !7852!98!.; !4/5!7, !L/5!9/.U! /t!93B8T4181!, 2!1742-, .2;!7852!9, 2!6B8E-2!  
 .; DK9, !: 5, !21.: 61: .814/5!24E4984, @7; 6.41, !6/E E, !y/.4145, 99, y!0851; .4, : ., !8: =!6/9/542814/52R@, 1!  
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C852!9, !D4998! , !73>.9/@: 5, !68.1/I. 8-B4, !7; 18499; , !0; 18T94, !8D, 6! : 5! I . /: -, !7, !6B, V2!7, !V8E499, >R!8!  
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 2842/5!7, 2!-9: 4, 2!2: 4D851, 67, 2!641, .5, 2!., 6: , 499851!93, 8: !7, !-9: 4, !/: !7, !93: 281, !73, 8: !7, !E, .!-/: .!  
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 5/E2! 74W; ., 512! 0a818! A84! i /5/! , !1 a818! ^/R! ^8! H: , 214/5! 7, !93, 8: ! 8--8.8X! 84524! 6/E E, !  
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Q! ^, !94, : Q741!i /5/@8564, 5!94, : !7, !.41: , 92!08: 0/: .73B: 4!8T857/55; 2!7852!6, 11, !2/64; 1; !- . /1, 21851, R@!  
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 8.6B; /9/14H: , "!!  
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<sup>1</sup>Il nous a été signalé que l'occupation indonésienne aurait joué un rôle notable dans l'activation ou la réactivation de ces conflits fonciers, celle-ci ayant permis l'accaparement de terres par des groupes pro-indonésiens au détriment de groupes favorables à l'indépendance et qui ont dû abandonner leurs territoires pour se réfugier à l'intérieur des terres. Cette information reste cependant à confirmer.

<sup>2</sup>Anteo de Arauzo, Salomon de Arauzo, Bernard de Arauzo, Selvine Ximenes, Leonido de Soares, Simeon da Cruz, Manuel Ximenes, Moises Massa, Maurizio Ximenes.

Q!+B86: 5, !7, 2!6/9945, 2!H: 4!6/E-/2, 5!19, !1, ..41/4., !D4998! , /42!-/ .1, !: 5!5/E@H: 4!8!V841!93/T0, !173: 5, !  
 , =-946814/5! -8. !9, 2! B8T418512"! +, .1845, 2! 6/E-/ .1, 5!1 7, 2! I. /11, 2@ H: 4! /5!1 2, .D4! 7, ! 2; -: 9! : , 2!g!  
 738: 1. , 2! 6/9945, 2@ D424! , 2@ /5!1 - , .E42! 7, ! 6/5V4. E, .! 98! - .; 2, 56, ! 738564, 52! B8T41812! 0E842/52!  
 42/9; , 2R@7/5!19, 2!B8T418512!-, : D, 5!1, 56/ . , !7/55, .!98!9/68942814/5!- .; 642, @, !19, !5/E!7, 2!/66: -8512!  
 H: \_492! -, : D, 5!1241: , .! ?!9\_8E/5!1 7\_: 5, !1 ; 5; 89/!4, !6/E-9K1, " !C38: 1. , 2!2/5!1 7, 2!W/5, 2!7, !V/.o1! /t!  
 6, .1845, 2!., 22/ : .6, 2!-, : D, 5!1o1. , !9/68942; , 2!0/42, 8: !a85: !i 87: !Z!878@T/42!7, !6/521.: 614/5R"!!  
 !  
 Q!7, 2!241, 2!., E8. H: 8T9, 2!2/5!16/52141: ; 2!-8. !7, : =!, 52, ET9, 2!J!!  
 ! v!9, !241, !V/.14V4; !73@4!>. 8!2: .!98!6/9945, !7: !EoE, !5/E@H: 4!0/ : , !9, !.Y9, !7, !E; E/.489! -/ : .!98!  
 7, .54K. , !D461/4. , !73>.9/!2: .!a8n8787, "  
 ! v!9, !241, !7, !98!-, , E4K. , !; !942, @^, !181: .: @V/57; , !-8. !9, !681; 6B421, !]8n: .: " !  
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 - ., E4K. , 2!E4224/52!8.6B; /9/!4H: , 2!2; 184, 5!1V/68942; , 2!2: .!6, 99, 2064"!!  
 !  
 Q! ]: .!98!6Y1, @9, 2!V. /514K. , 2! -8.181 ; , 2!8D, 6!9, 2! , 52, ET9, 2!D/42452!; 184, 5!1E8. H: ; , 2!7, !24! 5, 2! , 5!  
 D; ! 18: =!1. , 22; 2!/: !5/: ; 2@ H: 4!7, D84, 5!1o1. , !, 5!., 1, 5: 2@2/: 2! -45, !7, !E/H: , .4, !7, !98!-8.1!7, 2!  
 I. /: -, 2!D/42452!, 5!H: , 2!4/5"!!  
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 ^, 2!1.8D8: =!D/5!1 2, ! -/ : .2: 4D. , !, 5! ., 6B, .6B85!98! -986, ! 738: 1. , 2! ; 9; E, 512! 7852!9, !1, ..41/4. , !J!  
 B8T4181@V/.o12!, !241, 2!286. ; 2!, 5!-8.146: 94, . "!!  
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<b>G&amp;sa&amp;e de</b>	<b>I&amp;grob&amp;di&amp;ersit&amp;e a&amp;ie&amp;n</b>	<b>et o&amp;talle</b>
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**! A Bb :di&ersit&e des p&ges &g&e&t&et fr&es s&ar&ees**

C, : =!1BKE, 2!/5!1!; 1; !8T/. 7; 2@6, 9: 4!7, 2!V/.o12!, !18. T. , 2!286. ; 2!, !16, 9: 4!7, !9\_8! ./T4/74D, .241; " !^, 2!  
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 S894T/! , !1 7, E857, 5!1 ?! o1. , ! ; 18U; , 2! 8: -.K2! 7\_8: 1. , 2! 45V/. E81, : .2! , !1 -8. !: 5, ! 8589U2, ! 7, ! 98!  
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 ]4=!V/.o12!286.; 2@a a 0LR a a a SnR@2/4!7, 2!F!V/.o12!D4, 499, 2!N@/5!1; 1; !47, 514V4; , 2!, !1!  
 9/68942; , 2!2: .!98!68.1, !7, !98!.; !4/5!0L8B8!^81: 5@a/.418/@S: 4!^, n: E@S, 9/98@d81: !i , 98.85@S, !>45R"  
 ^8!-, E4K. , !6/: D. , !9, !2/E E, !17\_: 5, !6/9945, !2: .!: 5, !1. , 51845, !7\_B, 618. , 2!, !1, 2!1-8.181 ; , !, 5!., !9, 2!  
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 : 5!\/.1: !84!0S, .58.7/\, ., 4.8@87E45421.81, .: .!7, !S894T/R"!!  
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! ^8! 7, : =4KE, !V/. o! -8. 6/: . : , @ a/. 418/@ 8: ! 5/. 70, 2! 7, ! S894T/@ 8--8. 14, 51! ?! : 5! 8: 1, , !, 52, ET9, !  
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 7, ! c0#! B8@ 24! : ; ! ; ! 89, E, 5! 1 8: ! 2/E E, ! 1 7: 5, ! 6/9945, ! 452; . ; , ! 7852! 7, 2! V/. E 814/52! 8. T: 2! 14D, 20  
 8. T/. ; , 2! 7, 52, 2@ 7852! : 5! -8U28! , ! T, 8: 6/: -! E/452! ; . / 7; ! -8. ! 9, 8614/5! B: E 845, ! H: , ! 9, ! - . ; 6; 7, 51!!  
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 ; 6/9/14H: , 2! 0-. /1, 6! 4/5! 7, ! 6/: . 2! 7, 8: ! 1, E -/. 84. , 2@. Y9, ! 7, ! . ; ! : 9814/5! 7, 2! V9: =! , ! 1, 7, ! 6/52, . D814/5!  
 7, 2! 1, . . , 2R! , ! ; 6/5/E4H: , 2! 0. , 22/: . 6, 2! , 5! T/42! , ! , 2-K6, 2! 74D, . 2, 2@ W/5, ! . , V: ! , @ E 8. H: , . . !  
 1, . . 4! . 489zR! H: 4! /5! - : ! 9, . . ! o1. , ! 8224! 5; , 2! x! s: , 92! 2/5! 19, 2! 451, . 7412! H: 4! 2\_U! , =, . 6, 51! 1, 9! H: , ! 6, 9: 4!  
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 6, 2! V. 8! E, 512! V/. , 2! 4, . 2! -8. 18! , 510492! : 5, ! E oE, ! B421/4. , ! e! 492! 2/5! 16/5247; . ; 2! 6/E E, ! F12 { : . 2! N! Q!  
 , ! 1H: , 92! 2/5! 119, . . 2! . ; ! 4E, 2! 7. 866K2! , ! 1? ! H: , 92! . 4! , 92! . ; -/57, 510492! 098! V/. o! 1! 7, ! L8B8! ^81: 5! , 2! 1! 9, !  
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 V/5! 19/\_T0, ! 1 7: 5, ! 698224V46814/5! 7; 18499; , ! 8D, 6! 645H! E/. -B/1U-, 2! 5/E E; 2! J! OD: 5; . ; R@  
 a a 0/. , 499, ! 7, ! T { : VR@ 0-, 1412! V. : 4! 2R@ a a 0H: 4! -/ : 22, ! 8D, 6! 9, 2! -4, . . , 2R@

$a$       0V, : 499, 2! H: 4! 698H: , 51R! H: 4! .; -/57, 51!?! 74W; ., 512! 2181: 12!J! 7: ! - ., E4, .! H: 4!, 2! 1/: 0/: . 2!  
 286. ; !?! 6, : =! H: 4! -, : D, 51! 9, ! 7, D, 54. ! 2, 9/5! 9, : . ! 822/64814/5! 8D, 6! 7, 2! ., 21, 2! 7, 2! 856o1. , 2! /: ! 9, : .!  
 - ./=4E41; ! 8D, 6! : 5, ! 2/: . 6, ! 7, 8: 9, ! -/45! , =1. oE, ! 7: ! ! . 874, 51! ; 1851! 7/55; ! -8. ! 9, 2! F    !  
 7; -/: . D: 2! 7, ! 1/: 1! 68. 861K. , ! 286. ; ! 0, 5! . 842/5! 7, ! 9, : . ! 9/68942814/5! /: ! 7, ! 9, 2-K6, ! xR"! ! <5! E8. ! , ! 7, 2!  
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F T A a a a A A a

! ^, 2! 7, : =! 94, : =!, 5H: o1; 2! >. 9/!, ! a8n8787, ! 0#c\*! E! 891R! -.; 2, 51, 51! 7, 2! -. /V492! 7 81. /T4/74D, . 241; ! 74W; ., 564; 2! 6, ! H: 4! .; -/57! -. /T8T9, E, 51! 1851! ?! 7, 2! 6B/4=! 6: 91: ., 92! H: ?! 7, 2! 6/51. 8451, 2! ; 6/9/14H: , 2! 0-. /V49! E4=1, ! 1: T, . 6: 9, 2!, ! ! . 8452! ?! >. 9/!, ! 2: . 1/: ! ! . 8452! ?! a8n8787, ! /: 1., ! 9, 2! V.: 414, . 2! 6/E E: 52! 8: =! 7, : =R! ^, 2! -9851, 2!: 14942; , 2! ?! 7, 2! V452! 894E, 5184., 2! /: ! 8: 1., ! 2! / . 1 8542, 51! 2, 9/5! : 5! ! . 874, 51! 7, ! ! , 214/5! 7, ! 6, 99, 2! H: 4! 2/5! 21. 461, E, 51! 6: 914D; , 2! 855: , 99, 2! /: ! -; ., 55, 2! OV.: 414, . 2! T8ET/: 2! R! ?! 6, 99, 2! H: 4! 2/5! !-. /1; ! ; , 2! 0n8- /n! 84078n! zR!

! ^, 2! -. 814H: , 2! 7, ! ! , 214/5! 7, 2! 94! 5, : =! , 5! -8. 146: 94, ! ! 9; 98! 81, ! , ! 98! 18499, ! - . 4D49; 14, 51! 9, : . ! E: 914V/5614/558941; ! 069Y1: ., 2! ! T/42! 7, ! V, : ! g! -. /7: 614/5! 7, ! V9, : . 2! /: ! V, : 499, 2! -/: . ! 98! -8-8U, ! , ! 9, ! E 854/6R! , ! 2/5! ! ?! 8--. /V/574. ! H: 851! ?! 9, : . 2! E/78941; 2!, ! / . 4145, 2!

! >! >. 9/! 9, 2! -9851, 2! 7, 2! 8564, 52! 641; , 2! 2/5! ?! 141. , ! 7, =, E-9, ! 9, 2! V.: 412! 7\_8n874.: ! 0B a a R! 98! V; 6: 9, ! 7, ! 8n8. ! 0C a a R! 9, ! E8.: 514! 0M a 2-"R! 9, ! 18E8. 45! Ta a a ! 9, ! E499, ! 10S a a a a , 11/: !: 5, ! 8: 1., ! , 2-K6, ! H: 4! 2, . 841! : 5, ! 87D, 5146, ! 7: ! E8u2R"! ^ 5, ! 8: 1., ! 7426: 224/5! ?! >. 9/! 8! V841! ; 181! 7, ! H: 8! / . W, ! -9851, 2! 7, 2! 8564, 52! H: 4! ., 9KD, 51! 7: ! , ! 421., ! 7: ! ! 028: D8! , R! /: ! 7: ! a! 06: 914D; R! , ! 1H: 4! 8! V841! 18--8. 8X1., ! 7, 2! 681; ! / . 4, 2! 7: 281, ! 5, 11, E, 51! 7; 94E41; , 2! 8D, 6! 98! 6/52/E E814/5! 7, ! ! . 8452! 0 a R! V, : 499, 2! 0 a a R! . B4W/E, 2! /: ! 1: T, . 6: 9, 2! 0 R! , ! V.: 412! 0 a R! >! a8n8787, ! 49! , 2! 1V841! . ; V, : ., 56, ! /: 1., ! 9, ! 2/ . ! B/! 9, ! 6/4=!, ! 19, ! E499, ! 6: 914D; 2! ?! 7, 2! V.: 412! 7\_8. T, . 2! V/ ., 214, . 2! 6/E E, ! 5/: . . 41: ., ! 7, 2! 8564, 52! ! ! a ! , ! ! a 7/5! 9, 2! V.: 412! 7/4D, 51! o1., ! T/: 49942! 8D85! 16/52/E E814/5!, ! 1H: 4! 2/5! !, 56/ ., ! : 14942; 2! 6/E E, ! 5/: . . 41: ., ! 7, ! 742, 11, "!!

! ^ 5, ! 6/558422856, ! V45, ! 7, ! 98! ., -. /7: 614/5! 7, 2! -9851, 2! , 5! -8. 146: 94, ! ! 7, 2! 4574D47: 2! E r9, 2! , ! 1! V, E, 99, 2! 8D, 6! 7, 2! 7; 5/E45814/5! -8. 146: 94K., 2! 866/E-8! 5, ! 9, : . ! ! , 214/5!



F B a a 8n874.:

<5! : 2; E; @9, 2! .8572!1BKE, 2!?!8T/. 7, .!2: .!9.8! . /T4/74D, . 241; !2/51!6, : =!7, 2! - . /V492!7, !74D, . 241; ! 822/64; 2! ?! 74W; . 512! 94, : =! , !1 B421/4, . 2@ 7, 2! -BU1/- .814H: , 2! 0! .874, 51! 7, ! , 214/5! , !1 7, ! E854-: 9814/5R@ 7, 2! . , - . ; 2, 51814/52!822/64; , 2!8: =! -9851, 2!0B421/4, . ! EU1B4H: , !7, !9, : .!/. 4!45, !, !1 451. /7: 614/52R@ 7, 2!9/!4H: , 2!7, !7; 5/E45814/5@681; ! / .42814/5!, !1698224V46814/5@7, 2!7. /412!8W; .8512! 8: =! , 2-K6, 2!, !1, 2-86, 2!6: 914D; , 2!" 5!8: 1. , !D/9, !@4E - / .1851!7852!9, !6/51, =! , !7, !7; D, 9/ - - , E, 51!7, ! 9X9, @, 2!16, 9: 4!7, !98!7: .8T4941; !7, !9, = -9/41814/5!7, ! -9851, 2! - / : .!98!D855, .4, !098V814n@ T/1; zR! / : !9, ! 14228! , !7, ! 1842! , !5! 8n8. ! 098! V4T, . ! , 2!1 - . /7: 4!, ! ?! -8.14. !7, 2! 0, : 5, 2! V, : 499, 2R! , !5! D: , !7, ! 98! 6/E E, . 648942814/5!7, !6, 2!/T0, !2!1. 87414/55, 92!" !

**Sirs loca**

^ 5, !2; .4, !7\_ /T2, .D814/52! - / .1, !2: .!9; 6/5/E4, !7/E, 214H: , !, !198!74D424/5!2, =: , 99, !7: !1.8D849! - / : .!98! . , - . /7: 614/5!2/6489, !?!>.9/!, !1a8n8787, " !^8! . , - . /7: 614/5!2/6489, !7, 2!: 541; 2!7/E, 214H: , 2!2, E T9, ! o1. , !V/57; , !2: .!98!6/, =421, 56, !7, !74D, . 2!; . !4E, 2!7; 6B85! , 2!19, !1. /6@9; 6B85! , !7; 689; !0687, 8: =R!, !1 9; 6B85! , !7, !- . /7: 4!2!7, !T82, " !S; 1849@ -9851, 2!6: 914D; , 2!, !1/T0, !2!.41: , 92!2/5!19, 2! - .4564-8: =! /T0, !2! 7, !9; 6B85! , " !\8. !9, !T4842!7, !6, 2!; 6B85! , 2!9, 2! - / - : 9814/52!866K7, 51!?!7, 2!/T0, !2!7, !D89, : .@?!7, !98! 5/ : . .41: . , !, !18: =! . , 9814/52!5; 6, 2284. , 2!?!9, : .! . , - . /7: 614/5!2/6489, " !

^8!74D424/5!2/6489, !7: !1.8D849! , 51. , !9, 2!B/E E, 2! , !19, 2!V, E E, 2!2, E T9, !o1. , !822, W! ; H: 494T. ; , @ 7: ! E/452!1, 99, !H: 3, 99, !, 2!1- . ; 2, 51; , !7852!9, 2!7426/ : .2@EoE, !24!9, !2/45!8: =! , 5V8512!, !19, 51. , 14, 5!7, !98! E842/5! . , 9KD, 5!17, 2! . , 2- /528T4941; 2!V; E4545, 2!^8! -o6B, @, 5! . , D856B, @, 2!1- .4564-89, E, 5!1!9, !V841! 7, 2!B/E E, 2!" !

^, 2! 8614/52! 861: , 99, 2! 7, 2! 8! , 512! 7, !7; D, 9/ - - , E, 51! ! 7: ! ! / : D, .5, E, 51! 0<E - . , 28! 748n@ 87E45421.814/5!7, !9 } 181@9\_ } !942, !, !1j, 850+B.421/-B, ! [ 894-8: 7!9: 40EoE, R! /5!1- . , E42!98! . , - .42, !7, ! 6, .1845, 2!6/558422856, 2!9/689, 2!94; , 2!8: =! E; 14, .2! 7.8. !! 0! 98! 6; .8E4H: , @ 9, !14228! , ! 0! H: 4! 2/5!1! E8451, 5851!7, D, 5: , 2!5, !2/ : .6, !4E - / .1851, !7, !, .D, 5: 2! - / : .!9, 2!V, E E, 2!7!3>.9/!, !17, !1a8n8787, " ! ^, !7; D, 9/ - - , E, 51!2, !1.87: 4!1-8. !: 5, !2/ .1, !7, !E8.6B85742814/5!7, !98!6: 91: . , @. , 57851!9, 2!1, 52!-9: 2! 7; - , 578512!7, 2!; 6B85! , 2!7, 2! - . /7: 4!2!7, !T82, " ! ^ 5!1, 9! - . /6, 22: 2!2, .8! , 56/ . , !866, 51: ; !8D, 6!9, ! 7; -9/4, E, 51!7, !9457: 2!4, !7: !! / : .42E, !?!>18- . /!" !

^ 5!8: 1. , !851!9, !7\_ /T2, .D814/5!8!6/56, .5; !98!1, 214/5!9/689, !7, !98!6: 91: . , !0 aR!"^387B; 24/5!7, 2! 1. / : -2!?!93<!942, !- . /1, 21851, ! / : !681B/94H: , !, 2!1: 5!V861, : .!4E - / .1851!?! - . , 57. , !, 5!6/E -1, ! - / : .! 6/E - . , 57. , !9, 2! 74W; . 512! .8- - / .12!?!98! i : 91: .8! C: 5, ! E854K. , !1; 5; .89, @ 9, 2! - . /1, 218512! /5!1! 1, 57856, !?! /E - . , !9, : .2! . , 9814/52!8D, 6!98!6: 91: . , !9/689, " ! ] , : 9, 2!2/5!1!6/52, .D; , 2!9, 2! - .814H: , 2! 2/6489, 2!851; .4, : . , 2!H: 4! /5!1! ; 1; !2; 6: 98.42; , 2!-8. !93<!942, !- . /1, 21851, !0>22, E T9; 48!7, !C, : 2R@1, 99, 2! H: , !9, 2! ; 6B85! , 2! E81.4E/548: =! , !1 938.1428581!" @5D, .2, E, 51@ 6, : =! H: 4! 2, ! 2/5!1! 6/5D, .142! 8: ! 681B/94642E, !- . ; 2, 51, 5!17, 2!7, !, : 2! -9: 2! ; 9, D; 2! 73BUT.4741; @ 8D, 6!7, 2!6. /U856, 2!H: 4! Eo9, 5!1!9, 2! , 5141; 2! EU214H: , 2!9/689, 2! , !16B: ; 14, 55, 2!" <5!6/52; H: , 56, @ 9, 2! .41, 2!7; 74; 2!8: =! 856o1. , 2! , !1!9, 2! - .814H: , 2!681B/94H: , 2!5, !2, !6/51.8.4, 5!1-82!, !2/5!1! / : 2!6/5247; . ; 2!6/E E, !7, 2!861, 2! . , 9414, : =!" !

<5V45@: 5!7, 2! - /4512!8! - / .1; !2: .!98! -986, !7, 2!V, E E, 2!7852!9, 2! - .814H: , 2!7.822/64; 2!6/ - / : .8142E, !?! >18: . /!, !!2: .!9, !V84T9, !54D, 8: !7, !- . /7: 614/5!, =6; 7, 5184. , @ - .4564-89, E, 51!?!a8n8787, " !

**lbrtiondb éthodologie pticipie**

^ 5, ! ; 18- , !4E - / .1851, !7, ! 5/2! 1.8D8: =! 2: .!9, !1, . .845! 8! - / .1; !2: .!98! 6/E E: 546814/5! 8D, 6!9, 2! - / - : 9814/52! 9/689, 2! 8: 1/ : .! 7: ! 7; . / : 9, E, 51! 7, ! 5/1. , ! , 6B, .6B, !, !1 2: .! 2, 2! V458941; 2! Z/1. , ! 7; E8.6B, !2, !V/57, !2: .! : 5!6/51.8!1E/ .89!, 51. , ! - / - : 9814/52!9/689, 2!, !16B, .6B, : .2@ . , - . , 5851!, 5! H: , 9H: , !2/ .1, !98!9/!4H: , !7: !1, .E, !7, !6/52, 51, E, 51! - . ; 898T9, !45V/ . E; !1, 9!H: 49!, 2!17; V454!7852!98! +/5D, 514/5!2: .!98!C4D, .241; !S4/9/!4H: , " !^, 2! - / - : 9814/52! /5!1! ; 1; !6/52: 91; , 2!2: .!9/ - - / .1: 541; !7, ! 6, !1, ! , 6B, .6B, @ 98! V/ . E, !, !1 98! 7, 2!45814/5! 7, !2, 2! . ; 2: 91812!" @! , 2!1 84524! - . ; D: @ 8: ! 94, : !7: 5, ! 6/5D, 514/55, 99, !, .2141: 14/5@7, !7426: 1. .!6/50/451, E, 51!7, 2! ; 2: 91812!8V45!7, 51822: . , .!98!D8947814/5! , !19, : .!74W: 24/5!2/ : 2! : 5, !V/ . E, !7; V454, !-8. !, : =!U!94D, .@ T. /6B: . , @7; -94851@ -855, 8: =z!"^8!H: , 214/5! 7: !- : T946!7, 2!458184, !8! ; !- /2; , !, !@E89! . ; !98!68.861K. , !6/5V47, 514, 9!7, !6, .18452!28D/4. 2! / : !, ; 6412@ 49!, 2!18-8. : !: 5, !7, E857, !7, !74D: 9!814/5! - / : .! : 5!98. !, !- : T946@9/689@ 5814/589! / : !451, .5814/589! 7852!9, !687. , !7: !7; D, 9/ - - , E, 51!7: !! / : .42E, @: 5, !7, 2!8614D41; 2!2: .!98H: , 99, !E42, !9, !-8U2! - / : .!2/5! 7; D, 9/ - - , E, 51!" !

!
   
+ , 11, !7; E8. 6B, !8!; 1; !2: 4D4, !?!) : 84Q S894T/!, !1>18: . /Q, !19, 2!6/E E: 58: 1; 2!/51!24! 54V4; !9, : . !451; . o1!
   
-/: .! 6, 2! - . /7: 614/52!, !1 9, : . ! 866/. 7! -/: . ! 6/998T/ . . ! ?! 98! 6/99, 61, ! 7, 2! 45V/. E 814/52Q 2, 9/5! 9, 2!
   
1, . E, 2! 7; V4542! -8. ! , : =0EoE, 2! 05/18E E, 5!Q ?! S894T/Q 8D, 6! 9/. 1 8542814/5! 7, 2! 6; . ; E/54, 2!
   
-, . E, 11851!7, !. ; D; 9, . !9, 2!45V/. E 814/52R"!!
   
!
   
+ , 11, ! 7; E8. 6B, ! /T941, ! ?! E, 5, . ! 7, ! -84. ! 98! - . /7: 614/5! 7, 2! 28D/4. 2! 264, 514V4H: , 2Q , ! 9, : . !
   
1. 8526. 4-14/5!2: . !9, !-985!9/689Q6, !H: 4!, . - . ; 2, 51, !: 5, !8-- . /6B, !455/D851, "!\8. !8499, : . 2Q5/ : 2!2, . /52!
   
1. K2! 811, 514V2! 8: =! ; D, 51: , 92! 6/5V9412! 7. 451; . o12! , 51, . ! ! . /: - , 2!9/68: =! H: , ! -/: . . 84, 51! . 8D4D, . ! 5/2!
   
8-- . /6B, 2Q - . 4564-89, E, 51! 7852!9, !6/51, =1, !7\_ : 5! <181!/t!9, 2! . K! 9, 2!6/: 1: E 4K. , 2!2/5!1! , 5!V494! . 85, !
   
7, 2!4521. : . E, 512!9; ! 8: =!"
   
!
   
` 5, ! ; 18-, ! 451, . E; 7484. , ! 6/52421, ! , 5! : 5, ! - . , E 4K. , ! . , 2!41: 14/5! 8: =! -/-: 9814/52! 9/689, 2! 7, 2!
   
; 2: 91812!7, !98!, . 6B, . 6B, Q9, : . !-, . E, 11851!7, ! ; 8! 4. !2: . !9, !6/51, 5: !, !!2: . !98!V/. E, !V4589, "!\4E/. !>47!
   
- . /- /2, ! 73/. ! 8542, . !, 5!) \* & # ! 8D, 6! 93; H: 4-, ! 7, ! ! 89/6! : 5, ! . , 2!41: 14/5! 451, . 8614D, ! 7, 2! . ; 2: 91812! 7: !
   
- . /0, ! ! \. 452! +98: 2! ?! ] : 84Q /t!9, 2! - /- : 9814/52! - /: . . 84, 51! . ; 8! 4. ! 8: =! - . ; 2, 51814/52! 7, 2! 6B, . 6B, : . 2! , !
   
9, 2!6/ . . 4! , . ! /: ! 6/E - 9; 1, . " ! +Y1; ! @ACQ : 5, ! 2; . 4, ! 7, ! 68. 1, 2! 7/4! ! o1. , ! - . ; - 8. ; , !, 5! D: , ! 7, ! 6, ! 1; 6B85! , " !
   
!
   
^ 8! 6/998T/ . 814/5! 8D, 6! 9, 2! 6B, . 6B, : . 2! 1. 8D8499851! 8: ! S. ; 249Q /t! 5/ET. , ! 7, ! . , 6B, . 6B, 2! . , 9, D851!
   
- . 4564-89, E, 51! 7, 2!, 1B5/264, 56, 2Q 2\_ 8-- : 4, 51! 2: . ! 7, 2! E; 1B/7/9/14, 2! -8. 1464-814D, 2Q - . , E, 11. 8! 7, !
   
. , 5V/ . 6, . ! 5/1, . ! . ; V9, =4/5" ! ` 5! , =, E - 9, ! 7, ! 6, 11, ! 8. 146: 9814/5! , 51, ! 28D/4. 2! 9/68: =! , ! 28D/4. 2!
   
264, 514V4H: , 2!, 2! 7/55; ! -8. ! 98! - : T946814/5! 7, ! 9\_ <56U69/ - ; 74, ! 7, ! 98! d/ . o1" ! +, ! ! /: D. 8! , !, 5! ! . 857, !
   
-8. 14, ! 6/0. ; 74! ; ! -8. ! 9, 2! 6B, . 6B, : . 2!, ! 19, 2! - /- : 9814/52! 1. 87414/55, 99, 2! 2: . ! 9, 2! 28D/4. 2!, ! 19, 2! V/ . E, 2!
   
7\_ : 28! , ! 7, 2! . , 22/ : . 6, 2! V/ . , 2! 4K. , 2!, 5! >E 8W/54, ! D42841Q -8. ! : 5, ! - : T946814/5! 7, 2! 45; , ! 8: 1851! 8: =!
   
- /- : 9814/52! 9/689, 2Q H: \_ 8: =! 7; 647, : . 2! - /9414H: , 2Q H: \_ ?! : 5! ! . 857! - : T946Q ?! E/51. , ! 98! 68-8641; ! 7, 2!
   
- /- : 9814/52! V/ . , 2! 4K. , 2! ?! ! ; . , . ! 7: . 8T9, E, 51! 9, : . !, 5D4. /55, E, 51Q 6, ! 7852! : 5! 6/51, =1, ! /t! 49! 9, : . !
   
; 184! ! , 50/45! 7, ! H: 411, . ! 9, : . ! E/7, ! 7, ! D4, ! 1. 87414/55, 9! V/ . , 2! 4, . ! - /: . ! 98422, . ! -986, ! 8: !
   
7; D, 9/ - - , E, 51! 7, ! 9; 9, D8! , !, ! 17, 2! E/5/6: 9! : . , 2!"
   
!
   
> ! 5/1, . ! ; ! 89, E, 51! H: , ! 0: 2H: 3?! - . ; 2, 51! 8: ! ! 4E/ . ! ^ , 2!, Q 5/ : 2! 538D/52! -82!, : ! 866K2Q 7852! 9, 2! 1U- , 2!
   
7, ! 28D/4. 2! . , 6: , 49942Q 8: =! . ; 6412! 7; 1, 5: 2! -8. ! 9, 2! V, E E, 2!"
   
!

**DIFFUSION ET VALORISATION DES RÉSULTATS**

**1. Préscientifique**

\ 9: 24, : . 2! /- ; . 814/52! 7, ! D89/ . 42814/5! /51! ; 1; ! E, 5; , 2!, 5!) \* & cJ!!
   
!
   
Q! \ 8. 1464-814/5! ?! 9, = - /2414/5! 7, ! L4E/ . ! >47! , 5! 0: 499, ! 1) \* & c! Fb81, 5, ! >E4! ZU8! a / . 42! N! 0+ /5B, p8!
   
Z/22/! a: 57/R! 8: ! a: 2; , ! 7, ! 98! A; 2421856, Q C494q!
   
Q! <5! 5/D, ET. , ! ) \* & cQ 98! - . ; 2, 56, ! 73: 5, ! E: 2; /9/! ; , ! 7852! 93; H: 4-, ! 8! - . , E 42! 7, ! - . ; 642, . ! 8D, 6! 9, 2!
   
- /- : 9814/52! 9/689, 2! 73>18: . /! 9, 2! V/ . E, 2! 7, ! D89/ . 42814/5! H: \_ , 99, 2! 2/ : B84184, 51! 0D/4. ! a a
   
a Q a R!
   
Q! <5! 7; 6, ET. , ! ) \* & cQ 5/ : 2! 8D/52! ; 1; ! 2/994641; 2! - /: . ! 8-- / . 1, . ! : 5! 6/52, 49! 264, 514V4H: , ! 8: ! - . /0, ! 1
   
73, = - /2414/5! - . ; D: ! - . /6B845, E, 51! 7852! 9, ! V/ . ! 17, ! S894T/! -8. ! 9, ! S894T/! L. : 21"!!
   
\ 9: 24, : . 2! 8. 1469, 2!, ! 17, 2! 6/5V; . , 56, 2! 2\_/4-1(-) -2(-) -2(:) 2(!) 4(, ) 1.

A8--/-/.!C" [ : 4998: 7!C" ) \* &c"!A, 6/5247; . . !9\_<2!452: 94574, 5!0@51./7: 614/5R"!A !5\*( \* -"!PQ &P"!!

!

C

j"0+!" [ 894-8: 7!C" [ : 4998: 7!S" +. , 2-4! 2, 8! - , /-9, @ 6/82189! 1, . . 41/.4, 2! 857! 6: 91: . 89! 451, . 8614/52x! L, 1: E!1, . 4n!857!S: 58n!45!1B, !]: 84!7421.461!/5!1B, !2/: 1B!6/821!/V!L4E/.!^, 2!, "\85, 9!], 8!5/E872@ <^ A>] <>>!) \* &c@Z851, . . , @%10: 499, 1!) \* &c"!!

j"0+!" [ 894-8: 7!C" [ : 4998: 7!J!LB, !5, /941B462!/V!L4E/.!^, 2!, J! . , 2/: .6, 2!, =-9/41814/5!857!9857! : 2, !45!! 6/51.821451!! , 5D4./5E, 512!"\85, 9!8.6B, /9/IU!/V!L4E/.@<^ A>] <>>!) \* &c@Z851, . . , @ (10: 499, 1!) \* &c!

**✂ libristion des coïsaes loctes**

C852!98!7U58E4H: , !7, !, 2141: 14/5!7, 2!7/55; , 2!6/99, 61; , 2!9, 2!; 6412!, 5.46B42!2: .!9, 2!6/558422856, 2! , 1!9B421/4. , !2, . /5!1D89/.42; 2!C852!6, 11, !-, . 2-, 6!4D, @74W; . , 51, 2!V/. E, 2!7, !2: --/.12!6: 91: . , 92!, !17, ! E; 748!/5!1; 1; !2/: E42!8: =!-/-: 9814/52!9/689, 2!8: !, ! 8. 7!7, 2!/T0, 6!4V2!H: . , 99, 2!/5!1, =-.4E; 2!+, 11, ! D89/.42814/5!2, . 8!; 8942; , !8-.K2!6/56, .1814/5!, !1, 5!; 1./41, !6/998T/.814/5!8D, 6!9, !], 6. ; 18.48!7\_<18!?! 9\_>. !1, !!?!98!+: 91: . , "!

**✂ Mristiiorpa cosertioret difion**

C852! 6, 11, !-, . 2-, 6!4D, @ 5/: 2! 8D/52! -./-/2; !98! -./7: 614/5! 7, !94D. , 2! -.; 2, 5185!1 9, 2! 28D/4. 2! , !! B421/4. , 2!9/68: =@H: 4!8!; 1; !866, -1; , !-8. !9, 2!-/-: 9814/52!2, 9/5!7, 2!/T0, 6!4V2!, !17, 2!-: T9462!6/56, .5; 2! 74W; . , 512!!

Q! ^, 2! 6B, V2! 6/: 1: E4, .2! 0S894T/R! /5!1, =-.4E; !98! 5; 6, 2241; ! 7\_5. , !421. , ! !9B421/4. , !9/689, ! , !1 9, 2! 1.87414/52!7, 2!74W; . , 51, 2!E842/52!6/: 1: E4K. , 2!-/: !9, 2!1; 5; .814/52!V: 1: . , 2!68. !9, 2!8564, 52!; 6.412! /5!1; !; ! 7; 1.: 412! >: 224! -/: .! 6/52, .D, .! 98! 58. .814/5! 7, 2! - , .2/55, 2! 7; 1, 51.46, 2! 7, ! 6, ! 28D/4. ! 0-81.4E/45, ! 45185!4T9, R! , ! ! V864941, .! 9\_8--./-.4814/5! 7, 2! . ; 6412! -8. ! 98! 0, : 5, ! 1; 5; .814/5! 7, 2! , 5. , !421. , E, 512! 8: 74/! , !1 /: ! 7, 2! 6/: .1, 2! D47; /2! 7, 2! , 51. , 14, 52! -/: . .84, 5!1 o1. , ! . ; 8942; 2! , ! 1.852V; . ; 2!2: .!74W; . , 512!2: --/.12!0+C@E-PR!, 5!6/E-9; E, 5!17, !9\_/: D.81, "!

Q! ^, 2! 6B, V2! 7, ! D4998! , !0>.9/! , ! ! a8n8787, !?! >18: ./R! /5!1; ! 89, E, 5!1 E/51. ; ! : 5! D4V! 451; . o1! ?! 98! -./7: 614/5!7: 5!94D. , !?!7, 2!45814/5!7, 2!-/-: 9814/52!9/689, 2!, !17, 2!; 6/9, 2!@, !?!-9: 2! ! .857, !; 6B, 99, @ 7, 2!-/224T9, 2!1/: .421, 2!"

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C852! 9, 2! 7, : =! 682@ 9, 2! 94D. , 2! 2, . /5!1; ; 741; 2! , 5! 74W; . , 51, 2! 985! : , 2! 01; 1: E@ .82: 8@ -/.1: ! 842@ 85! 9842@R@ 6B/424, 2! -8. !9, 2! 6B, V2! 6/: 1: E4, .2! /: !7, ! D4998! , 2! -/: .!2.822: . , !. , 2-, 6!4D, E, 5!17: 5, ! 8--./-.4814/5!1/189, !-8. !9, 2!-/-: 9814/52!9/689, 2!, !17\_5, !D89/.42814/5!-9: 2!98. ! , !054D, 8: !5814/589! , !1451, .5814/589!6/E E, !49!8!; 1; !, =-.4E; "\8. !8499, . 2@: 5, !811, 514/5!-8.146: 94K. , !2, .8!-/.1; , !8: =! 499: 21.814/52!7/5!16, .1845, 2!2, . /5!1422: , 2!7, 2! . , -.; 2, 51814/52!V841, 2!-8. !9, 2!-/-: 9814/52!9/ .2! 7, 2! , 51. , 14, 52!"

**✂ Miterpétuf palchéologie**

C852!9, !6/51, =1, !-8.146: 94, .!7: !7; D, 9/--, E, 5!1!/: .4214H: , !2: .!9\_9, !>18: ./!0, <<a]R@9, 2!6B, V2!7, ! D4998! , 2!0>.9/@>1, n.: @a8n8787, R!2/: B841, 5!1-./E/: D/4. !9, : .!B421/4. , !, !147, 5141; !9/689, ! "!!

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^8!-./-/2414/5!7, !-855, 8: =!451, . -.; 1814V2!8!; 1; !866, -1; , !, !!H: , 9H: , 2!1BKE, 2!/5!1; 1; !; E42!6/E E, ! 98! -.; 2, 51814/5! 7, 2! . ; 2: 91812! 264, 514V4H: , 2! 7, 2! V/: 499, 2! 8.6B; /9/I4H: , 2! 7, 2! 241, 2! -8.146: 94, .2! 0>1, n.: !, !1>.9/R@ 7, 2!28D/4. 2!9/68: =!94; 2!?!9.8.1428581!0 a !7, !a8n8787, @6; .8E4H: , !7\_>.9/""R!/: !8: =! -.814H: , 2! H: /1474, 55, 2!08! .46: 91: . , @ -o6B, R@ 7, 2! B421/4. , 2!9/689, 2!@, 16!" ^, 2!2: 0, 12!?! D89/.42, .@ 98! 21.: 61: .814/5! 7, ! 9.45V/. E814/5! . , 9814D, ! 8: ! 2, 45! 7, ! 9\_541; ! y-855, 8: y@ 84524! H: , ! 9, ! 6B/4=! 7, ! 9.4E-9851814/5! !02, 514, .!7.451, . -.; 1814/5!/: !-/4511457; - , 57851R!2, . /5!17426: 1; 2!8: !. , ! 8. 7!7, ! 98!68.1/I .8-B4, !7, 2!28D/4. 2!, !17, 2!94, : =!V842851!2, 52"!!

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\/: .! 9, ! 682! -8.146: 94, .! 7: ! 241, ! 7\_>1, n.: @ 98! D89/.42814/5! 2, .8! . ; 8942; , ! -8. ! 9.4E-9851814/5! 7, ! -855, 8: =!?!7/: T9, !54D, 8: =!7, !9, 61: . , @?!98!V/42!451, . -.; 1814V!06/51, 5: !45V/. E814VR!, !14574681, : .! 0/.4, 51814/5!7, 2!D4241, : .2R!!

Q! ^, !-., E4, .! -855, 8: !0-98! , R! 866: , 499, .8! 9, 2! D4241, : .2! 8. .4D85! -8. ! T81, 8: ! , !1 -.; 2, 51, .8! 1.K2! T.4KD, E, 5!1 9\_B421/4. , ! 9/689, ! , !1 9, 2! 451; .o12! 8.6B; /9/I4H: , 2! 7\_>1, n.: ! 2852! E, 514/55, .! 98!

9/68942814/5!7, !241, 2!8V45!7, !94E41, .!9, 2!D4241, 2!y28: D8! , 2y!7, 2!241, 2!@!/.4, 5!, .8!; !89, E, 5!1!D, .2!: 5!  
yT: ., 8: !7.45V/. E814/5y!098! E842/5!7: !6B, V!7, !D4998! , @9; 6/9, !""!xR! 7\_/t!: 5! !: 47, !9/689!V/. E; !9, 2!  
866/E-8!5, .8!8: !241, "!, 11, !21.8!; !4, !7\_866/E-8!5, E, 5!1!D42, !?! E841.42, .!9, !V9: =!7, !D4241, .: 2!, !!  
V864941, .!98!6/52, .D814/5!7: !241, "!  
Q!` 5!7, : =4KE, !-855, 8: !0! . /11, R!6/51, =1: 8942, .8!9, !241, !, 5!, =-/285!19, 2!.; 2: 9!812!264, 5!4V4H: , 2!7, 2!  
V/: 499, 2!8.6B; /9/!4H: , 2!06B. /5/9/!4, @- /1, .4, 2@, 16R"!  
^, !6B/4=!7, !985! : , 2! : 14942; , 2! -/: .!9, 2! -855, 8: =!84524! H: , !9, : .!4E-985181814/5!2, . /5!1!9/T0, !!  
7\_866/.7!8D, 6!9, 2!8: 1B/.4!; 2!7\_>1, n.: !, !!9, 02R! -./-.4; 184., 02R!7, 2!1, ., .2!"` 5, !T./6B: ., !V9U, .!  
0V/. E8! >PR! -/: .84! !o!., !-./7: 4!, !6/E/E, !2: --/.!-; 78! /!4H: , !?!98!D4241, !, !!; D, 51: , 99, E, 5!1!  
D, 57: , !y8: !T: ., 8: !7\_45V/. E814/5y!"

**5 Mttes pdgogiqs salbtshet coissnes loctes**

C852!9/T0, 6!4V!7, !-; ., 5542, .! , !! D89/.42, .!9, !28D/4.0V84., !8.1428589!9/689!8: -.K2!7, 2!0, : 5, 2@98!  
.; 8942814/5!7, !E89, 11, 2!-; 787/!4H: , 2!8U85!-!/: .!1BKE, !98!D855, .4, @98!- /1, .4, @9, 2! a @, 16!2, .84!  
, 5D428! , 8T9, "!, +, 2!E89, 11, 2!6/5!4, 57.84, 5!1?!98!V/42!: 5, !T./6B: ., !, =-/285!19, 2!28D/4.2!1, 6B54H: , 2@  
7, 2!; 6B851499/52! -./D, 585!17, !98! -./7: 6!4/5!8.1428589, !-/: .!499: 2!., .!98!74D, .241; !1, 6B54H: , 2!  
0!., 228! , 2@ E/!4V2!7, ! a @ 6; .8E4H: , 2@, 16R@ 7, 2! -./7: 4!2!581: ., 92!, E-9/U; 2!0V4T., 2@ -9851, 2!  
1, 45!/.4, 99, 2@1, ., .2@, 16R"!+, 2!E89, 11, 2!2., 84, 5!1; !89, E, 5!1: 5!T/5!2: --/.!-; 78! /!4H: , !-/: .!98!  
.; 8942814/5!7.8! , 94, .2!854E; 2!-8. !7, 2! !./: - , 2!822/64814V2!9/68: =!0 a !7, !a8n8787, @ !./: - , !7, !  
- /!4K., 2!7\_>.9/R!8D, 6!98!- /224T9, !6//-.: 8!4/5!7, !L4E/.!847!"  
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**PERSPECTIVES**

**1 Bpses ip Is dbfe**

\/: .!-; ., 5542, .!9, 2!8614/52!, 5!8E; , 2!2: .!9, 11, .845@9; H: 4-, !8!-: !2., 5!8! , .!7852!98!., 6B, .6B, !7, !  
V45856, E, 5!2!, =1: .4: .2!J!  
!  
Q! A; -/52, !?!9\_>>\!7: !E45421K., !7, !98!+ : 9! : ., !, !!7, !98!+/EE: 546814/5!0dAR!! \.8!4H: , 2!  
264, 5!4V4H: , 2!, !!1, 6B54H: , 2!8: !., !8.7!7, 2!-/94!4H: , 2!6: 9! : ., 99, 2!J!H: , 2!4/52!, !!, 50, : =@7; -Y!19, !  
&\*!7; 6, ET., !)\*&c"!L4!., !7, !98!-./-/2414/5!J! L a a a a  
T L !  
Q!C; T: !!7, !.; 78614/5!7\_: 5!8D8510-./0, !-/: .!.; -/52, !?!: 5!>>\! !>ZAI2: .!9, !1BKE, !7, 2!28D/4.2!  
9/68: =@7, 2!1, .4!4., 2!, !!7, 2!6/55, 6!4D41; 2!H: 4!9, 2!2/: 201, 57, 5!!"

**2 Bcondition pa lqptectioret a loristiondes sites archéologiqs**

^, !241, !738. !! : ., 2!., !73>1, n.: @>9, !4!L: 5: !S4T4!, 2!1: 5!B; .4!8! , !B421/.4H: , !4E-/.185!1-/: .!93X9, !  
73>18: . /! , !-/: .!9, !L4E/.0M.4, 5!89!+3, 2!1!9, !2, : 9!241, !738. !! : ., 2!., !-/: .!93452185!17852!93X9, "!"@!, 2!1!  
4E-/.185!17, !9, !-; 2, .D, .!, 5!93; 18!1, !!6, 98!5; 6, 2241, !-9: 24, .: 2!8614/52!J!  
&! !], 524T4942, .!9, 2!6/E/E: 58: 1; 2!9/689, 2!, !!9387E45421.8!4/5!.; !4/589, !?!98!-.; 2, .D814/5!7: !241, !  
0^, !1., !7: !], 6.; 18.48!173<18!18: =!>.12!, !!?!98!+ : 9! : ., !-/: .!8-- , 9, .!93451; .o!1B421/.4H: , !, !!8-- , 9, .!  
9, 2!.K!9, 2!?!2: 4D., !-/: .!9, 2!D4241, 2R!"  
)! !<D89: ., !9, 2!8614/52!5; 6, 2284., 2!?!98!-.; 2, .D814/5!7, 2!-, 451: ., 2!"^3; 18!45218T9, !7, !938T.4!  
5; 6, 2241, !: 5, !6/52/947814/5!"C, !-9: 2!98!- /2414/5!7, !938T.4!- .K2!73: 5!6B, E45!V.; H: , 5!; !6.; !: 5!  
.42H: , !- /1, 5!4, 9!"  
P! \.; -8., .!7, 2!-855, 8: =!73/.4, 5!814/52!, !!; 5, !T./6B: ., !-/: .!9, 2!D4241, .: 2!"

**Bercieets**

+, 2!., 6B, .6B, 2!/5!1; 1; !- /224T9, 2! !.r6, !8: !V45856, E, 5!17, !9` aA!@ACQaZbZ! \89/6!?! \8.42@ 7, !  
9.8614/5! @5641814D, !F! \98!, !V/. E, !-/: .!98!-.; 2, .D814/5!7, 2!-81.4E/45, 2!D4998! /42!8: !L4E/.!  
/.4, 5!89!N!7: !7; -8.1, E, 5!1] /64; 1; 2!7, !9@AC@ 7, !9@52141: !!V.85p842!7\_@57/5; 24, !0@d@R@, !!7: !C]d!7, !  
9@AC!"^, 2!8: 1/42814/52!7, !., 6B, .6B, !, !!7, !V/: 499, 2!/5!1; 1; !/T1, 5: , 2!8: -.K2!7: !], 6.; 18.48!17\_<18!1?!  
9\_>. !, !!?!98!+ : 9! : ., !7: !a45421K., !7: !L/: .42E, @, !!5/: 2!1, 5/52!?!., E., .64, .!aE, !+, 64948!>2242!, !!a!

Z: 5/!M94D, 4.8!-/: .!9, : .!2/: 14, 5"!]: .!9, !1, . .845@5/: 2!., E, .64/52!9, !-, .2/55, 9!7: !], 6. ; 18.48!7\_<18!  
?!9\_>. !!, !!?!98!+: 91: ., @9, 2!6B, V2!7, 2!2/: 207421.4612!7, !S894T/!, !!S, 9/4@9, 2!8: 1/.41; 2!.; !4/589, 2!, !!  
-./D456489, 2@, !!9, 2!B8T418512!7, !S894T/@!b/9T, 942@i 8E85828!, !!7, !>.9/@>78.8@>1, n.: !, !!a8n8787, !  
?!>18: ./!"