

Espaces, culture et peuplement

Josef Wilczek

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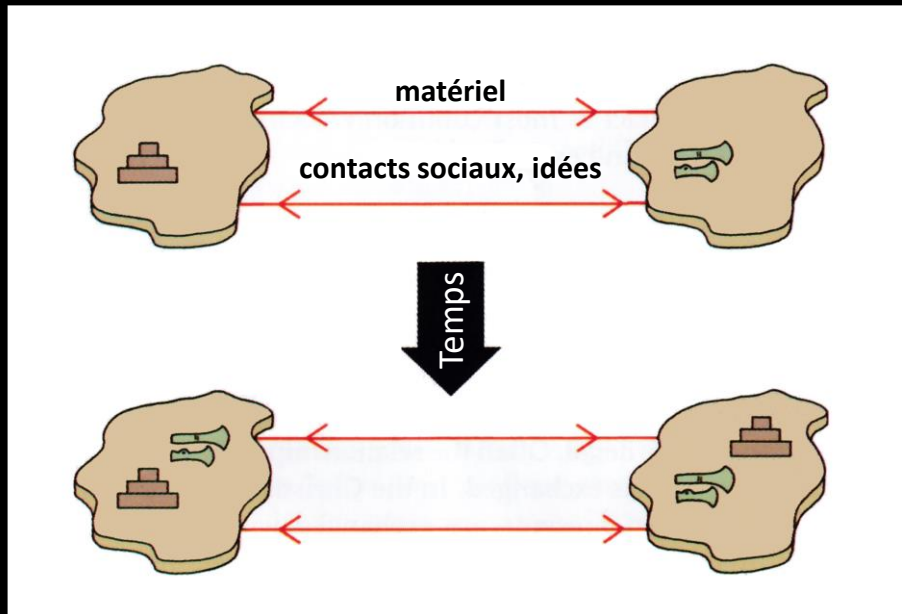


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Contacts et échanges

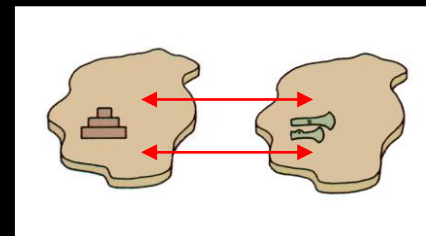
Echange d'objet et d'information

Echange



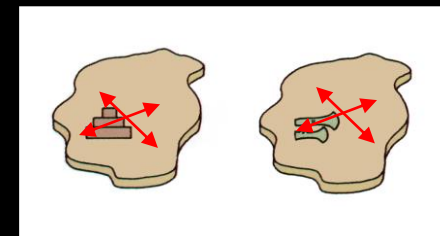
2 types d'échange

Externe



Echange/marché

Interne



Organisation sociale

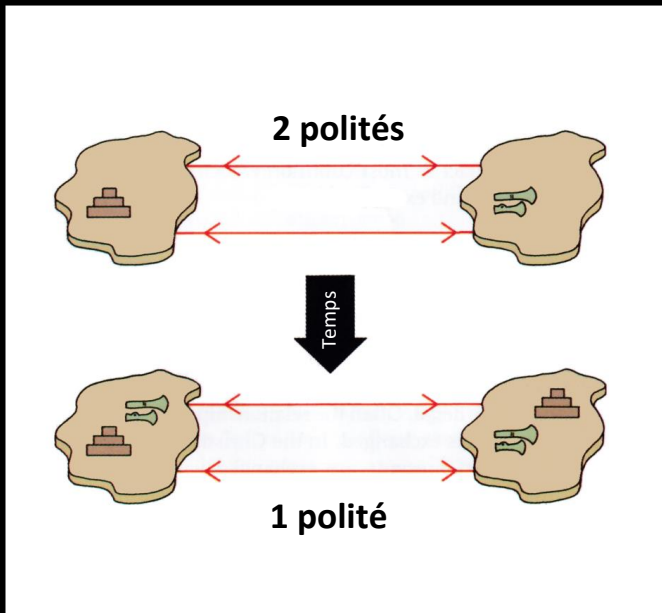
Contacts et échanges

Echange d'objet et d'information



Immanuel Wallerstein

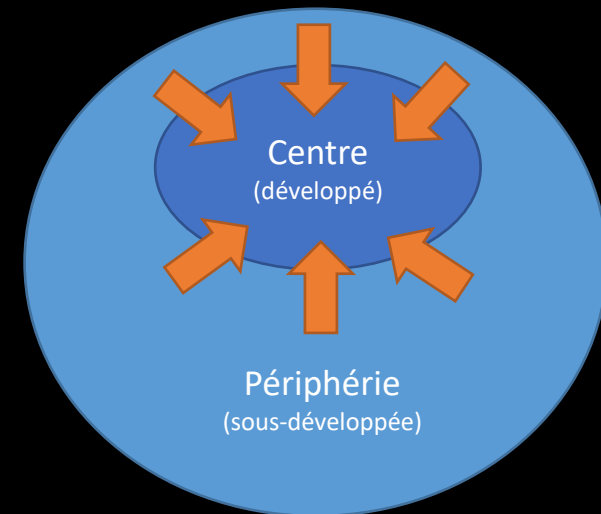
Les systèmes d'échange externe



Economie mondiale



Centre et périphérie



Contacts et échanges

Les premières indications des contacts

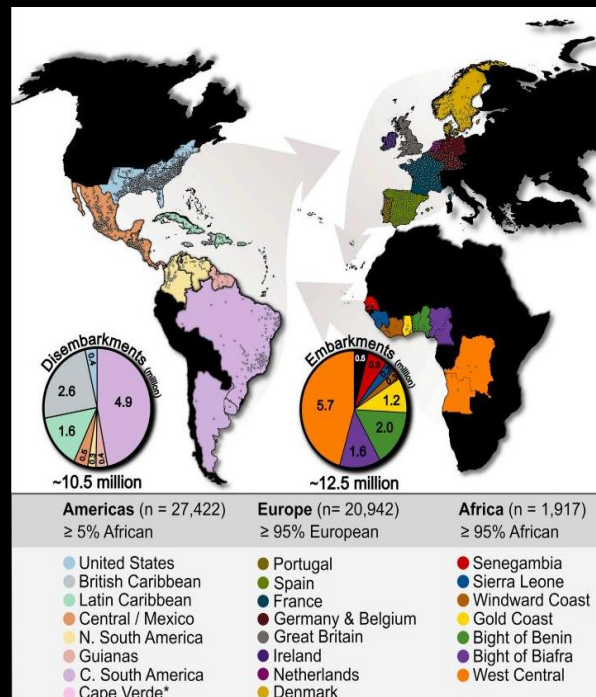
⇒ analyses d'ADN

Analyses d'ADN

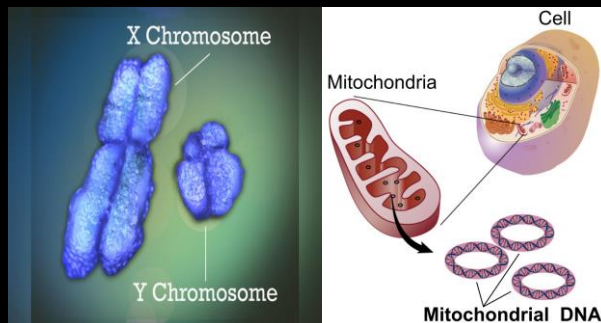
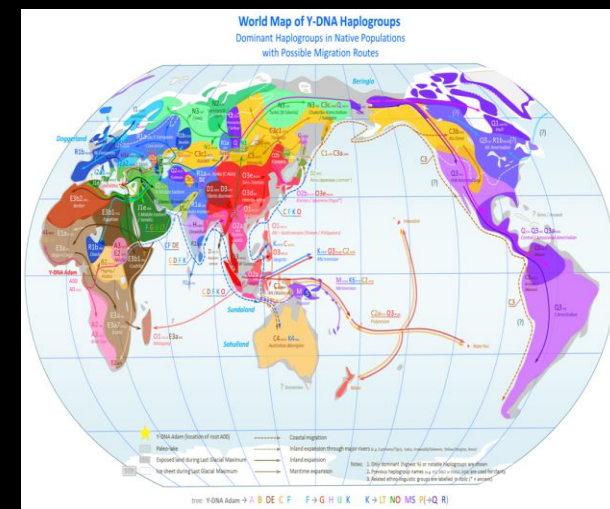


haplotypes

Tracer les origine (ancêtres des esclaves)



Tracer les origines



Y chromosome

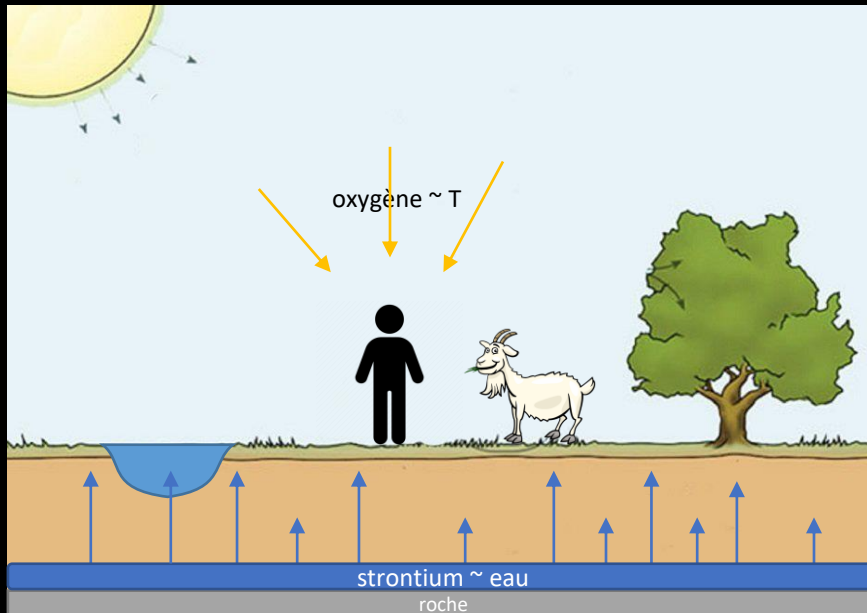
mADN

Contacts et échanges

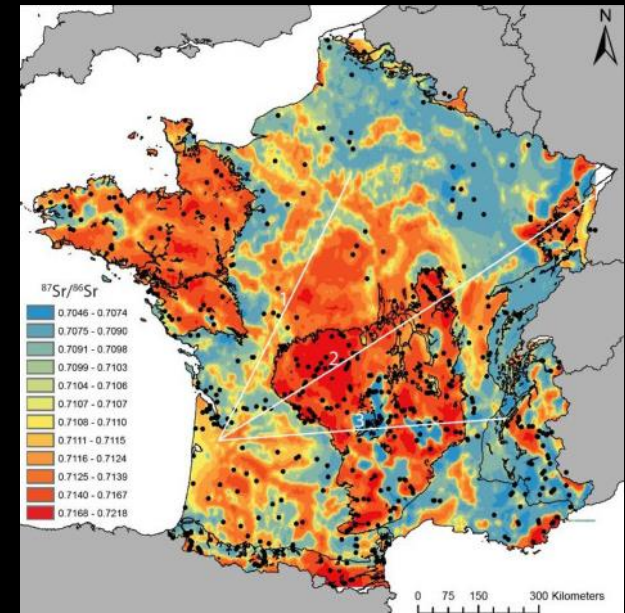
Les premières indications des contacts

⇒ analyses des isotopes

Analyses des isotopes



Carte des isotopes ($^{87}\text{Sr}/^{86}\text{Sr}$)



Contacts et échanges

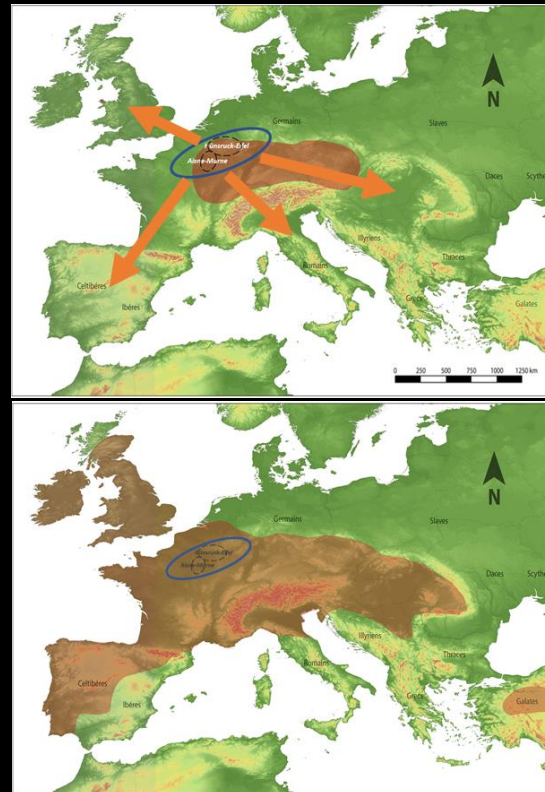
Les premières indications des contacts

⇒ analyses des isotopes

Archer d'Amesbury



Migration celtique ?



“Celtic migrations”: Fact or fiction? Strontium and oxygen isotope analysis of the Czech cemeteries of Radovesice and Kutná Hora in Bohemia

Mirjam Scheeres,^{1*} Corina Knipper,² Maya Hauschild,³ Martin Schönfelder,⁴ Wolfgang Siebel,⁵ Christopher Pare,³ and Kurt W. Alt^{6,7,8,9}

seulement une petite partie des gens ont immigré

- plutôt les hommes
- Bohême – guerriers
- Allemagne et Italie – non-guerriers

Contacts et échanges

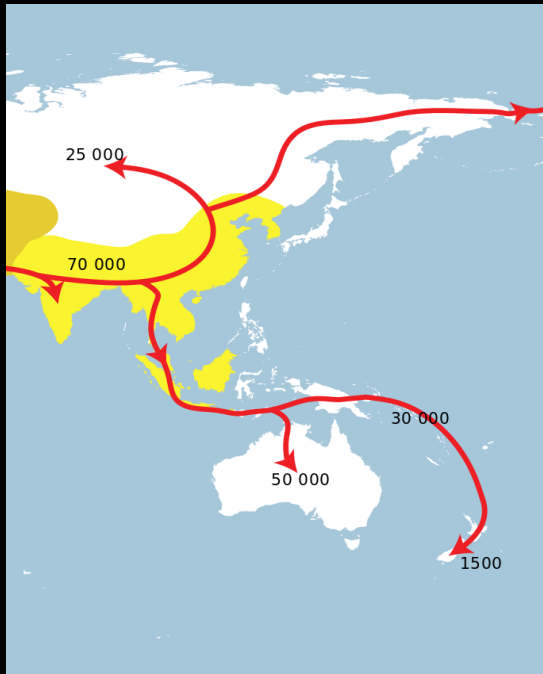
Les premières indications des contacts

⇒ contacts maritimes

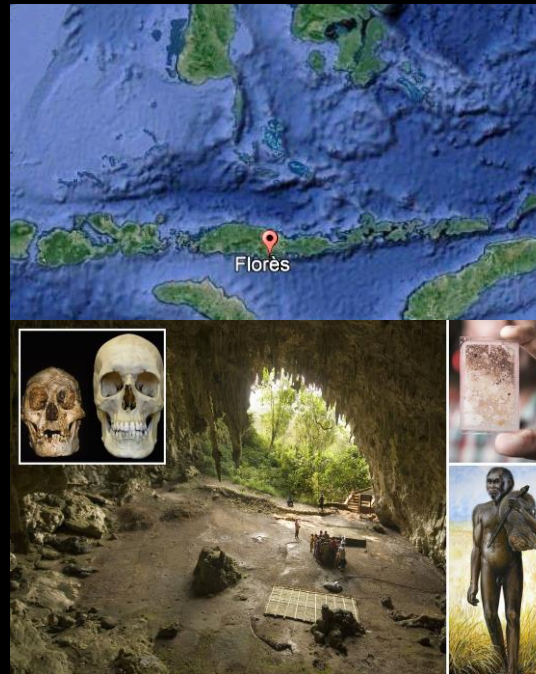


Monoxylon (UHK)

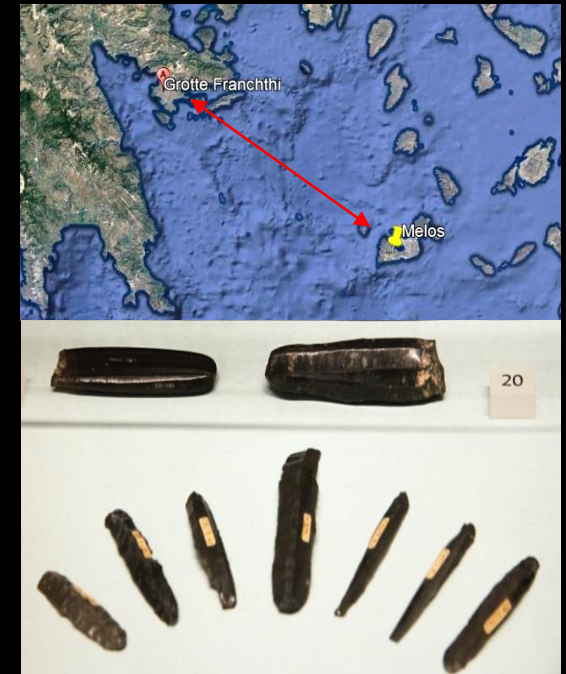
Australie (50k BC)



Flores (750-850k BC)



Mélos (8k BC)



Contacts et échanges

Cadeaux et réciprocité

Marcel Mauss



Principe de cadeau



Contacts et échanges

Cadeaux et réciprocité

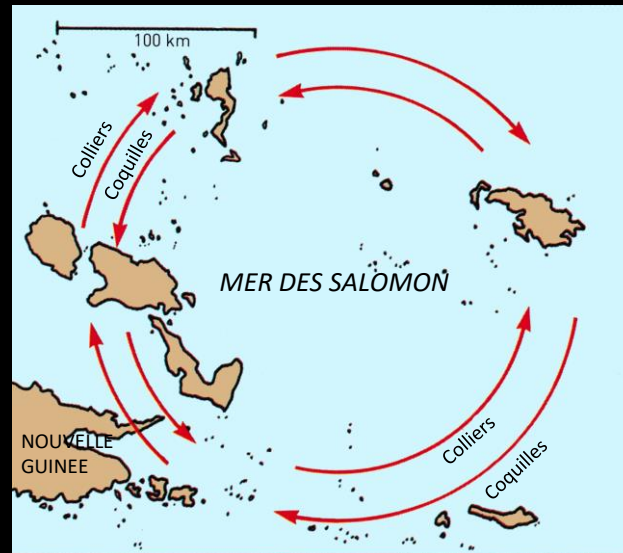


Grahame Clark

Bronislaw Malinowski



Kula



Néolithique



Contacts et échanges

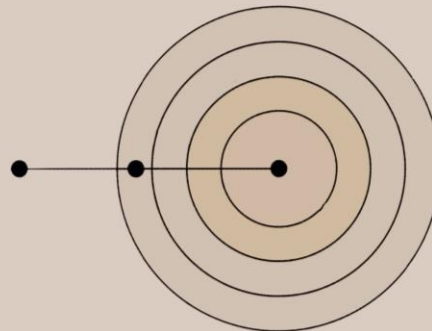
Modes des échanges

Karl Polanyi

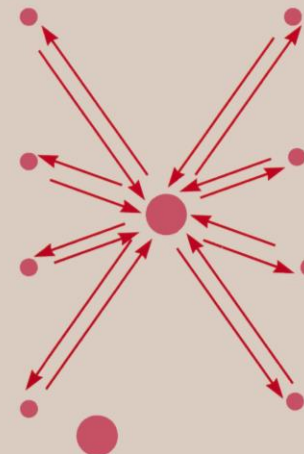


3 modes d'échange

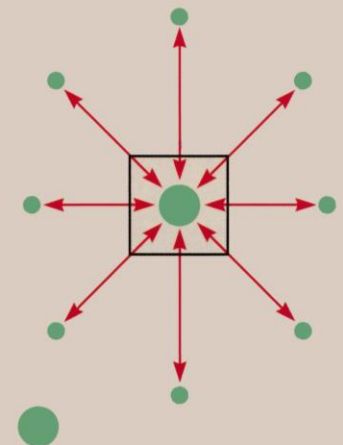
Réciprocité



Redistribution



Marché

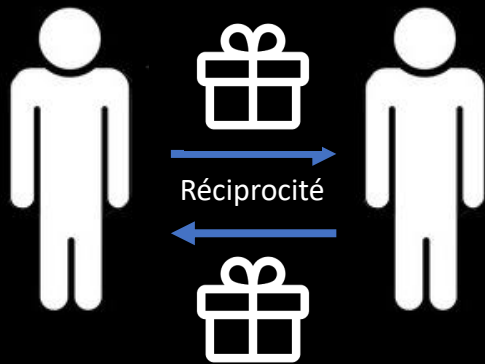


Contacts et échanges

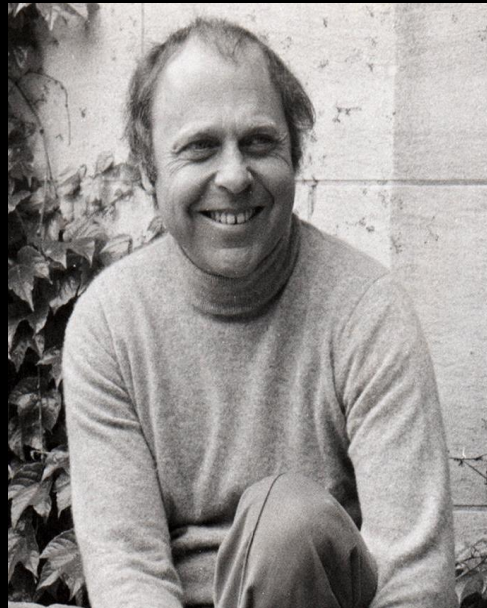
Modes des échanges

⇒ **Réciprocité** / Redistribution / Marché

Principe des cadeaux

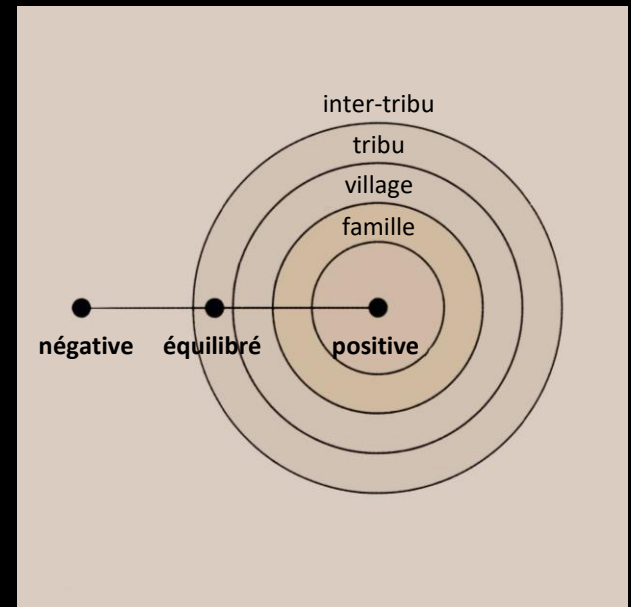


Marshall Sahlins



Types des réciprocités

~ distance relationnelle

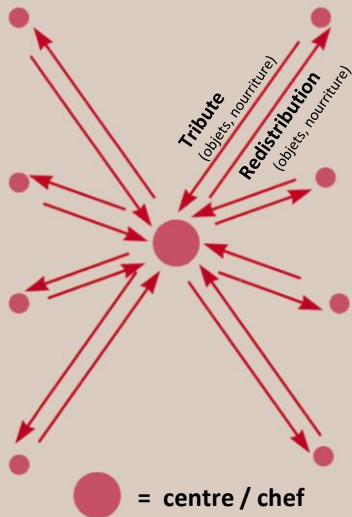


Contacts et échanges

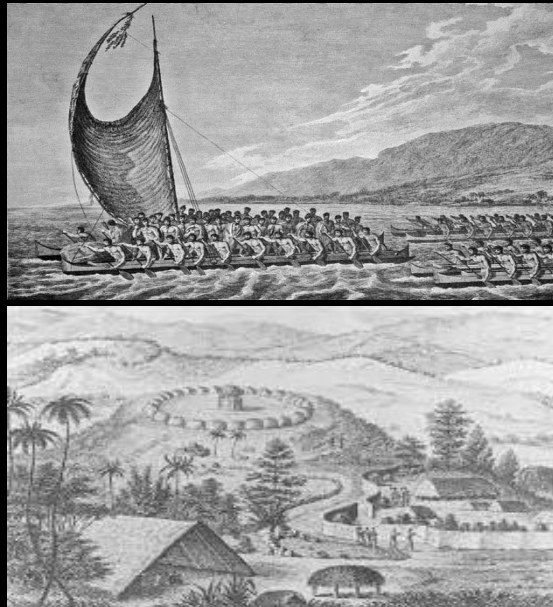
Modes des échanges

⇒ Réciprocité / Redistribution / Marché

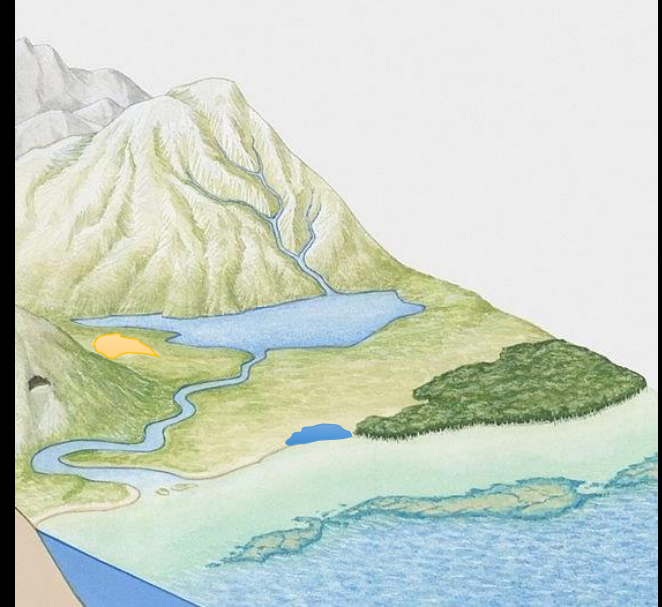
Principe de la redistribution



Chefferies et états



Avantages

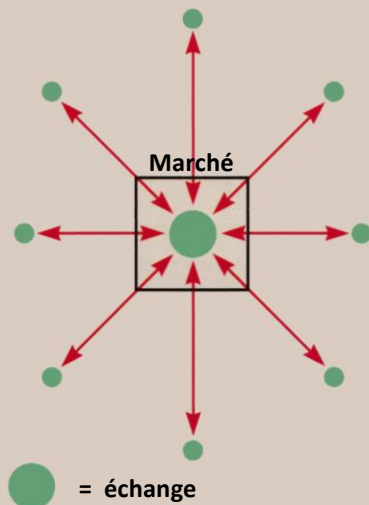


Contacts et échanges

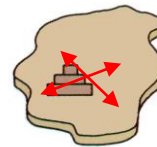
Modes des échanges

⇒ Réciprocité / Redistribution / **Marché**

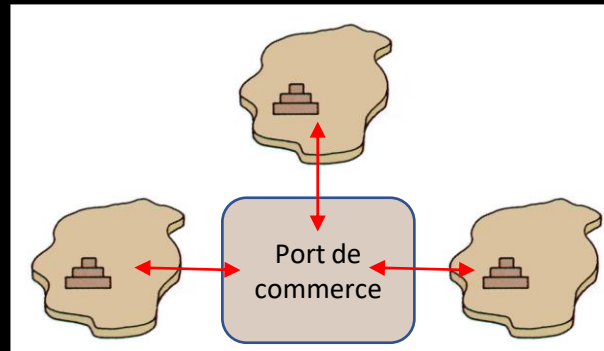
Principe du marché



Marché interne



externe



Sources écrites



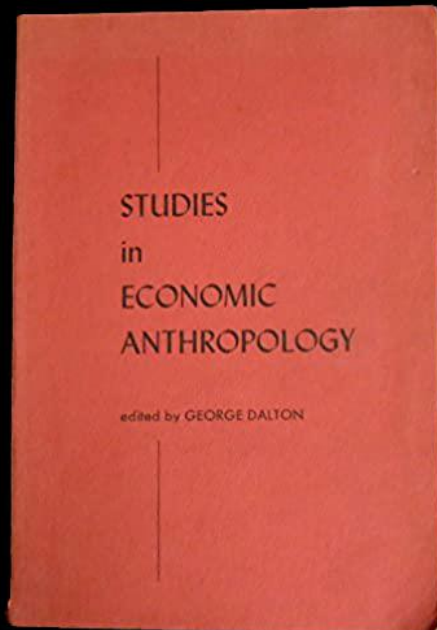
Assyrie (1800 BC)

Contacts et échanges

Objets de valeur et marchandises



George Dalton



Les objets de valeurs (primitives)

échanges cérémoniaux



Colliers et bracelets (*kula*)



Cochons et coquillages
(Polynésie)



Esclaves, fourrure
(Amérique du Nord)

Cadeaux royaux



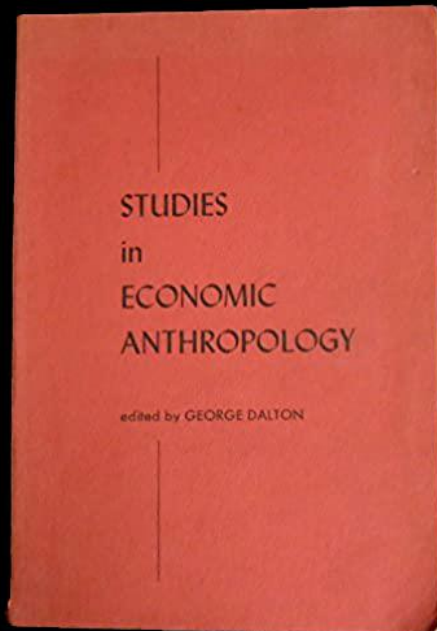
Haroun al-Rashid => Charlemagne



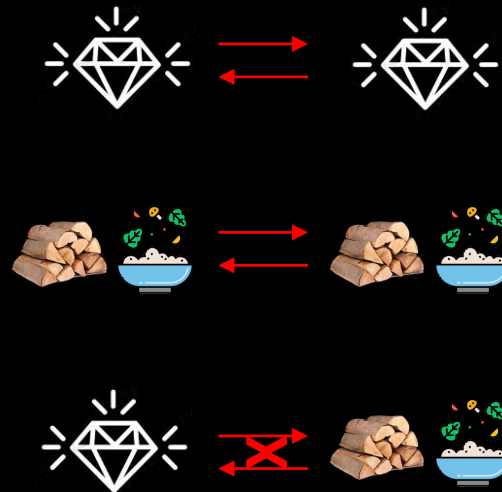
Contacts et échanges

Objets de valeur et marchandises

George Dalton

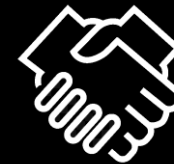


Sphère d'échange

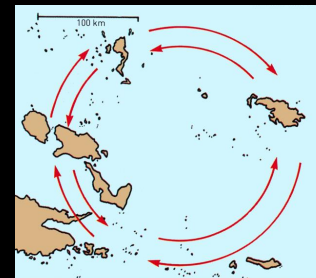


2 types d'échange cérémoniaux

renforcer les alliances



résoudre les rivalités



kula



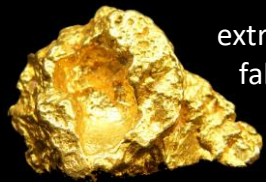
potlach

Contacts et échanges

Objets de valeur et marchandises

⇒ Matériaux de prestige

pas d'utilité



extraction ?
fabrication ?

rareté
durabilité
aspect visuel



plumes



ivoire



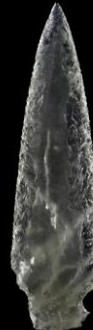
coquillages



ambre



jade



cristal



lapis lazuli



obsidienne



quartz



onyx

Contacts et échanges

Objets de valeur et marchandises

⇒ Matériaux de prestige

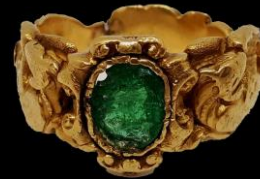


textile et vêtement

pas d'utilité



diamant



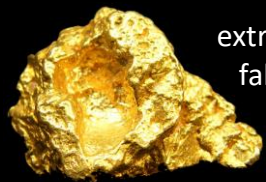
émeraude



saphir



rubis



extraction ?
fabrication ?

rareté
durabilité
aspect visuel



or



argent



cuivre



bronze



verre



faïence

Contacts et échanges

Aspects concernant les contacts et échanges

- ⇒ étude sources des matériaux/produits
- ⇒ étude de la distribution
- ⇒ étude de la production
- ⇒ étude de la consommation

Contacts et échanges

Comment trouver les sources des objets échangés ?

Style et forme



Italie

=>
?



Grèce

Matériel



?

=>



source
(matières premières)

Attention



Toutes les sources connues



Typicité pour une zone



Pas de mélange



Pas d'alternance

Comment trouver les sources des objets échangés ?

⇒ Caractérisation des matières (visuelles / microscopiques / traces / isotopes)

Contacts et échanges

Comment trouver les sources des objets échangés ?

⇒ Caractérisation des matières (**visuelles** / microscopiques / traces / isotopes)

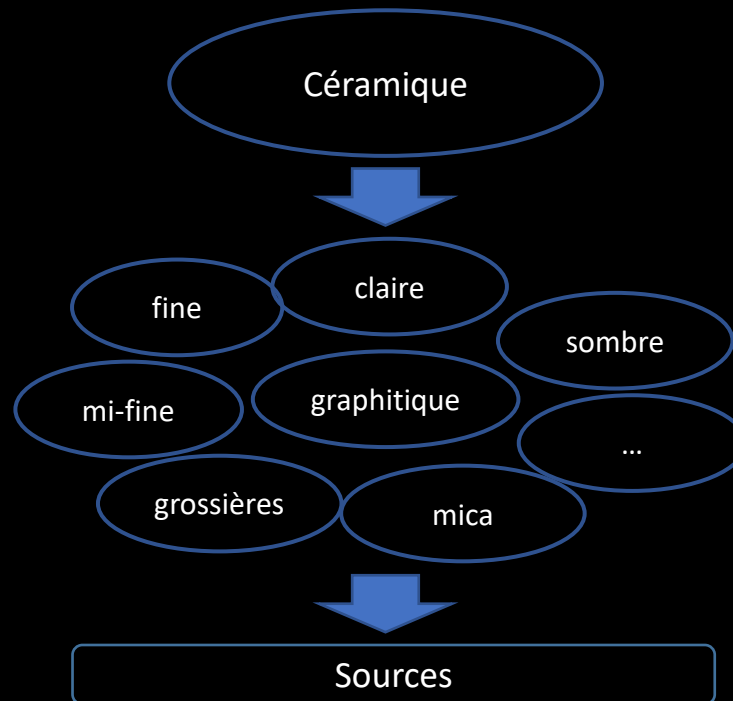
Pourquoi



Préliminaire

Séparation des groupes

Comment ça marche ?



Avantages et inconvénients

Rapidité

Effet du spécialiste

Coûts

Précision

Reproductibilité

Contacts et échanges

Comment trouver les sources des objets échangés ?

⇒ Caractérisation des matières (visuelles / **microscopiques** / traces / isotopes)

⇒ Lames fines/minces

Comment ça marche ?



tesson



fracture



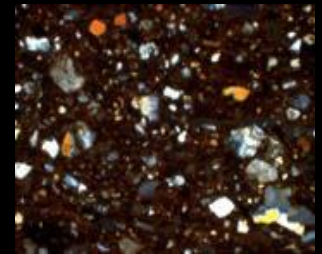
lissage



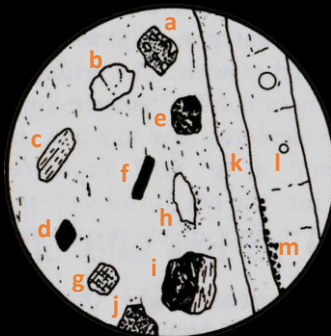
découpe d'une lame



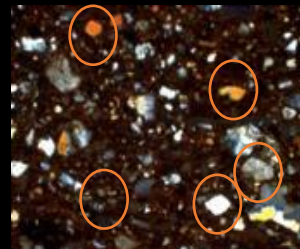
pétrographie



identification



- a feldspaths
- b quartz
- c plagioclase
- d amphibole
- e roches felsiques
- f biotite
- g clinopyroxène
- h vide
- i basalte
- j chaille
- k lissage
- l glaçage
- m pigmentes d'oxide



a, b, c, e, g



céramique
pierre

problème
(homogénéité)

Contacts et échanges

Comment trouver les sources des objets échangés ?

⇒ Caractérisation des matières (visuelles / **microscopiques** / traces / isotopes)

⇒ Analyse des minéraux lourds

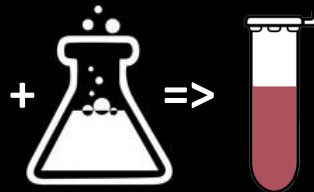
Comment ça marche ?



tesson



argile



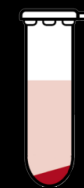
produit



tube

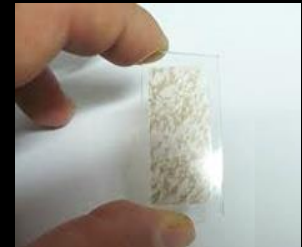


centrifuge

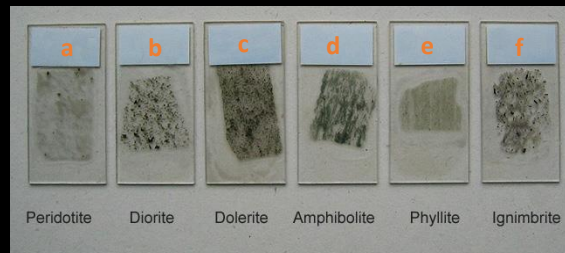


éléments
légers
éléments
lourds

séparation



lame fine



Peridotite Diorite Dolerite Amphibolite Phyllite Ignimbrite



a, b, c, e, g



céramique
pierre

Contacts et échanges

Comment trouver les sources des objets échangés ?

⇒ Caractérisation des matières (visuelles / microscopiques / **traces** / isotopes)

Analyse de traces



concentrations
des éléments chimiques



majeurs	Si (%)	95	95	95
	Ca (%)	3	3	3
	O (%)	1	1	1
	⋮	⋮	⋮	⋮
traces	Ba (ppm)	126	396	799
	Sr (ppm)	54	99	346
	Zr (ppm)	101	90	196

ppm (parts per million)

Analyse de traces



céramique



métallique



verre



lithiques, roches...

Différentes analyses

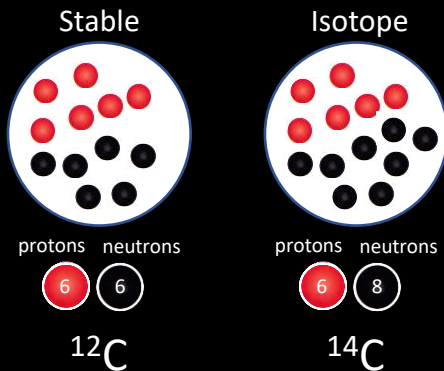
OES	Optical Emission Spectrometry
NAA	Neutron Activation Analysis
ICP-MS	Inductively Coupled Plasma Mass Spectrometry
AAS	Atomic Absorption Spectrometry
XRF	X-ray Fluorescence Spectrometry
PIXE	
PIGME	

Contacts et échanges

Comment trouver les sources des objets échangés ?

⇒ Caractérisation des matières (visuelles / microscopiques / traces / isotopes)

Isotopes



Provenance

Elément	Isotopes	Matériel
O – Oxygène	^{16}O , ^{17}O , ^{18}O	Os, marbre, coquilles
N – Nitrogène	^{14}N , ^{15}N	Os, ivoire
C – Carbon	^{12}C , ^{13}C	Os, marbre, coquilles
Pb – Plomb	^{204}Pb , ^{206}Pb , ^{207}Pb , ^{208}Pb	Minerais, pigments dans le verre, glaçage, métaux (Ag, Cu, Pb, Fe)
Sr – Strontium	^{84}Sr , ^{86}Sr , ^{87}Sr , ^{88}Sr	Os, ivoire, pierre (gypse, marbre, obsidienne)
Nd – Néodyme	^{142}Nd , ^{143}Nd , ^{144}Nd , ^{145}Nd , ^{146}Nd , ^{148}Nd	Roches, minéraux, poterie, ivoire, marbre

Spectrométrie de masse

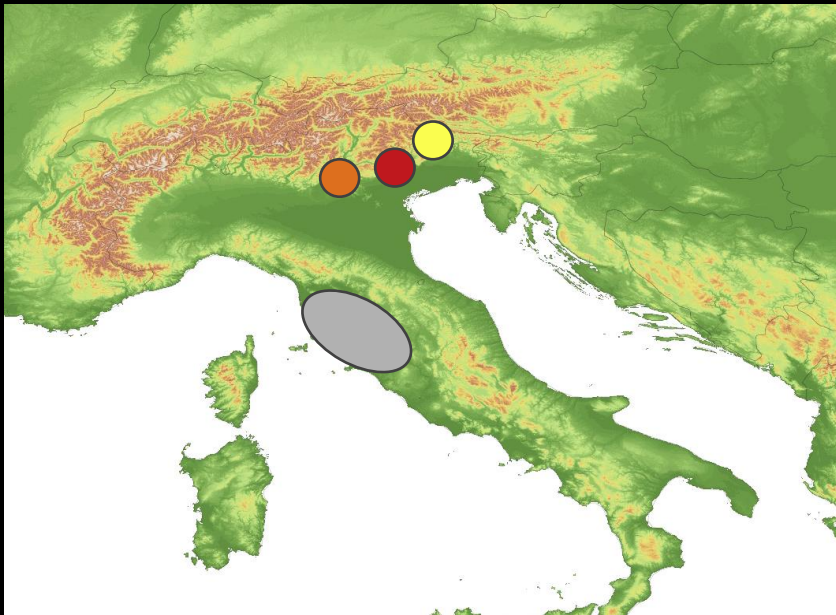
Contacts et échanges

Comment trouver les sources des objets échangés ?

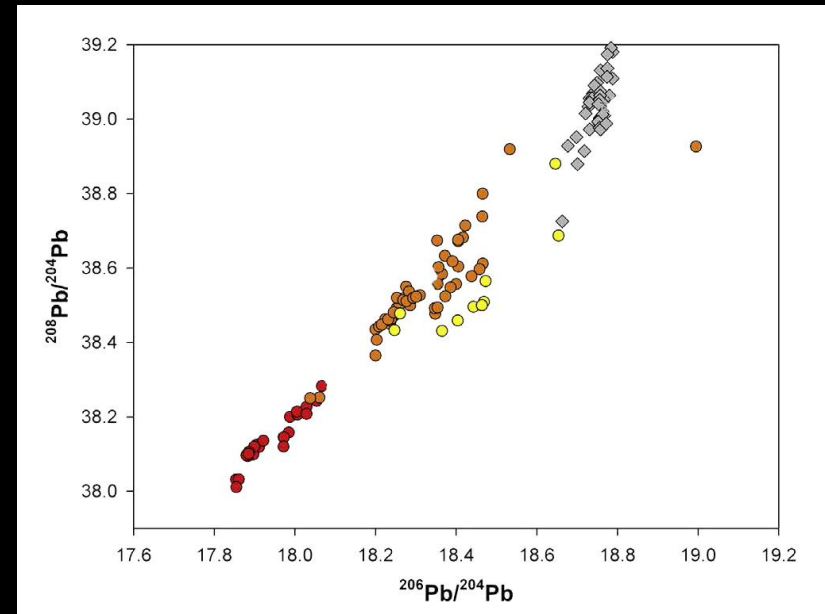
⇒ Caractérisation des matières (visuelles / microscopiques / traces / isotopes)



Comment ça marche ?



identification des mines (Cu)



spectromètre
de mass

analyse statistique
(projection des deux concentrations)

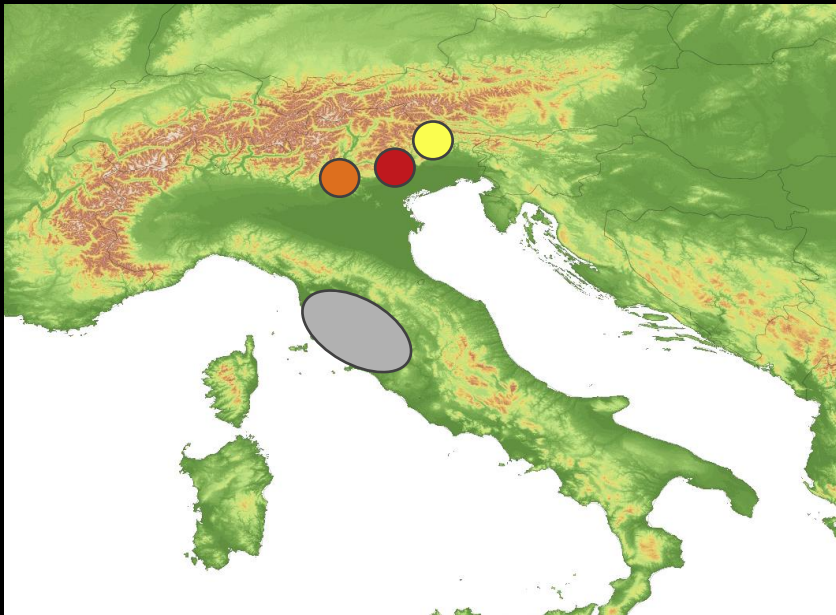
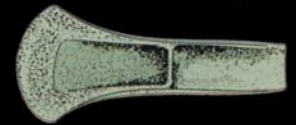
Contacts et échanges

Comment trouver les sources des objets échangés ?

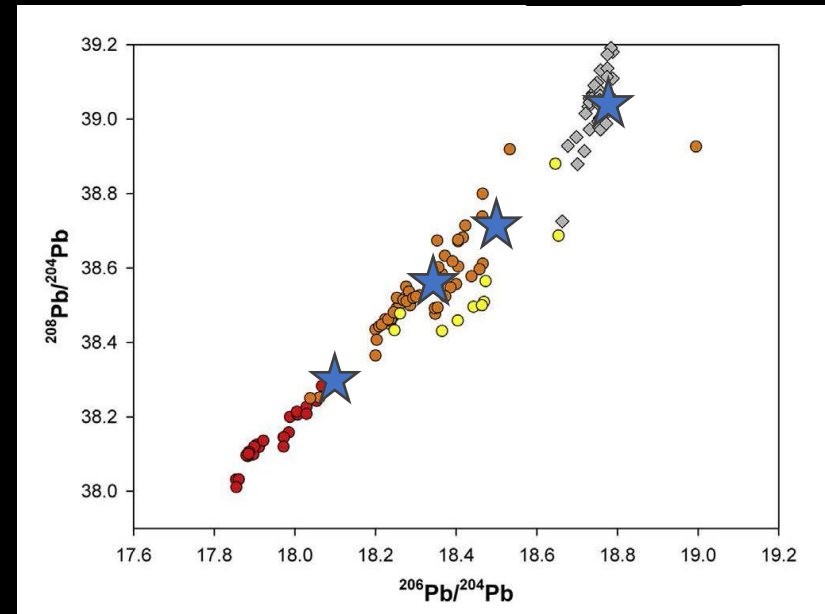
⇒ Caractérisation des matières (visuelles / microscopiques / traces / isotopes)



Comment ça marche ?



identification des mines (Cu)



spectromètre
de mass

analyse statistique
(projection des deux concentrations)

Contacts et échanges

Etude de la distribution

⇒ **sources écrites** / sources archéologiques

Nature et mécanismes d'échange

économie interne

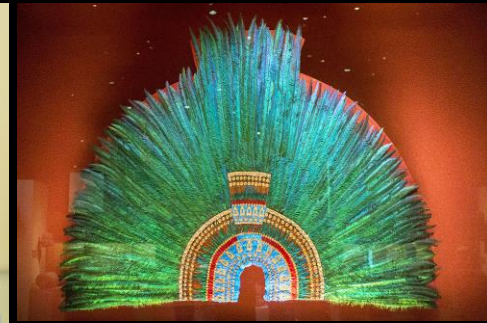


Knossos, Pylos

économie externe



Tell el-Amarna



Montezuma => Cortez => Charles V

Contacts et échanges

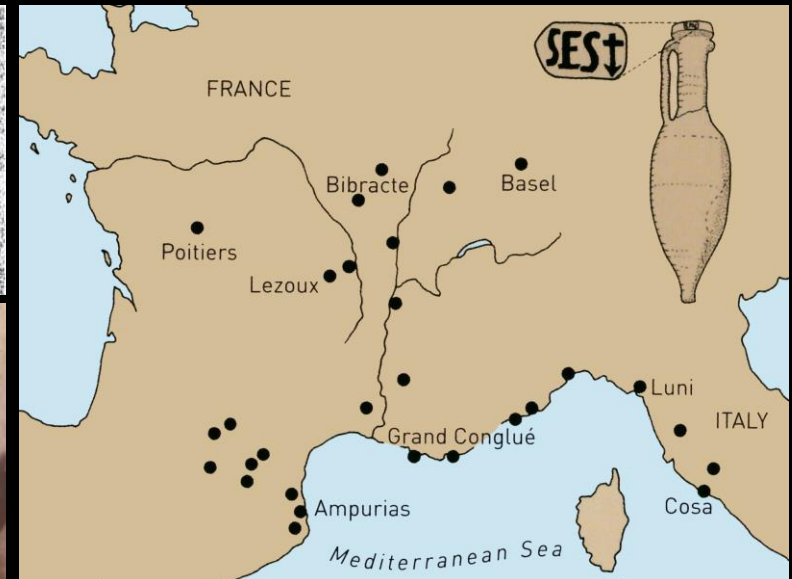
Etude de la distribution

⇒ sources écrites / **sources archéologiques**

Sceaux royaux



Marques des producteurs / propriétaires



Contacts et échanges

Etude de la distribution

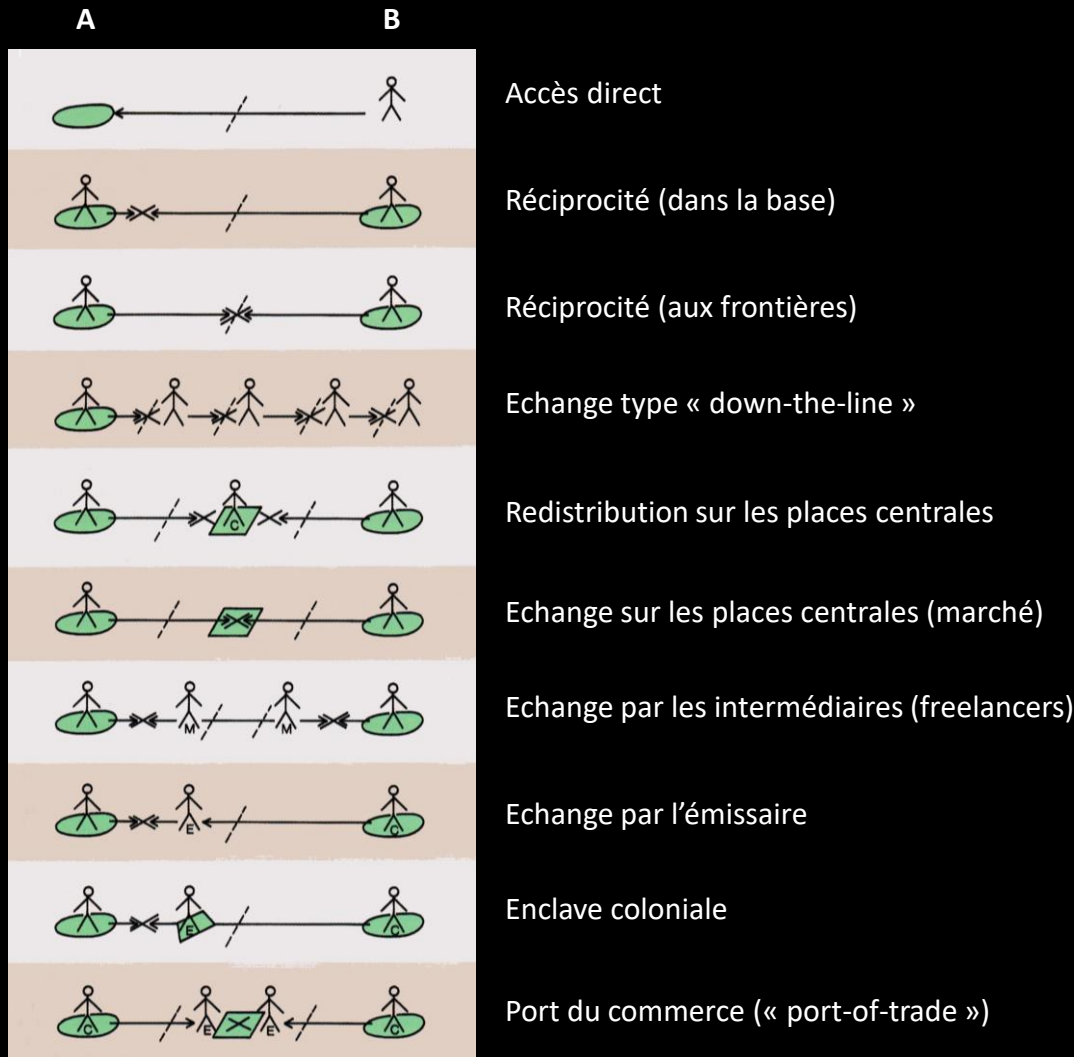
⇒ Mécanismes des échanges



Paul Bahn



Collin Renfrew



Contacts et échanges

Etude de la distribution

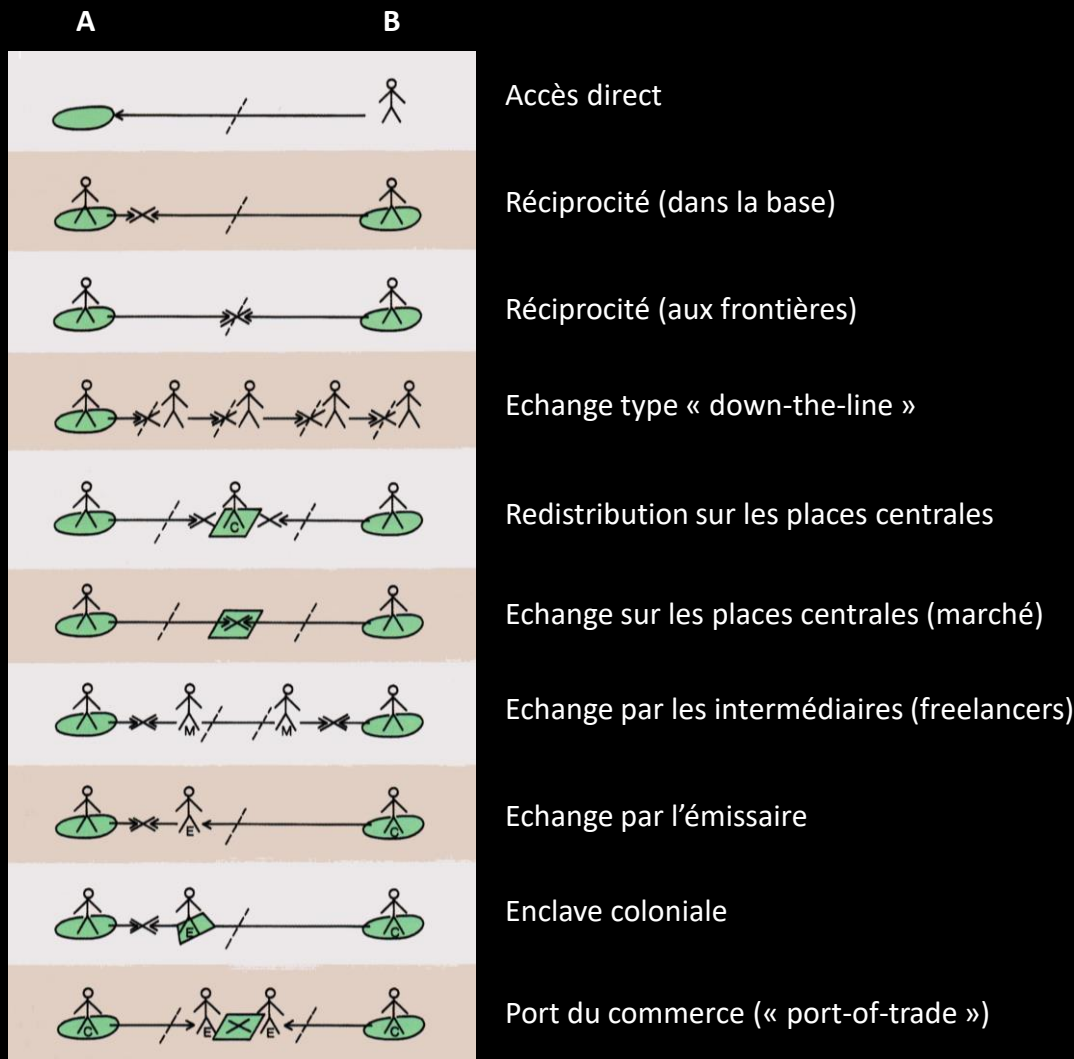
⇒ Mécanismes des échanges



Paul Bahn



Collin Renfrew



MAIS

traces nettes
et sans ambiguïtés

Contacts et échanges

Etude de la distribution

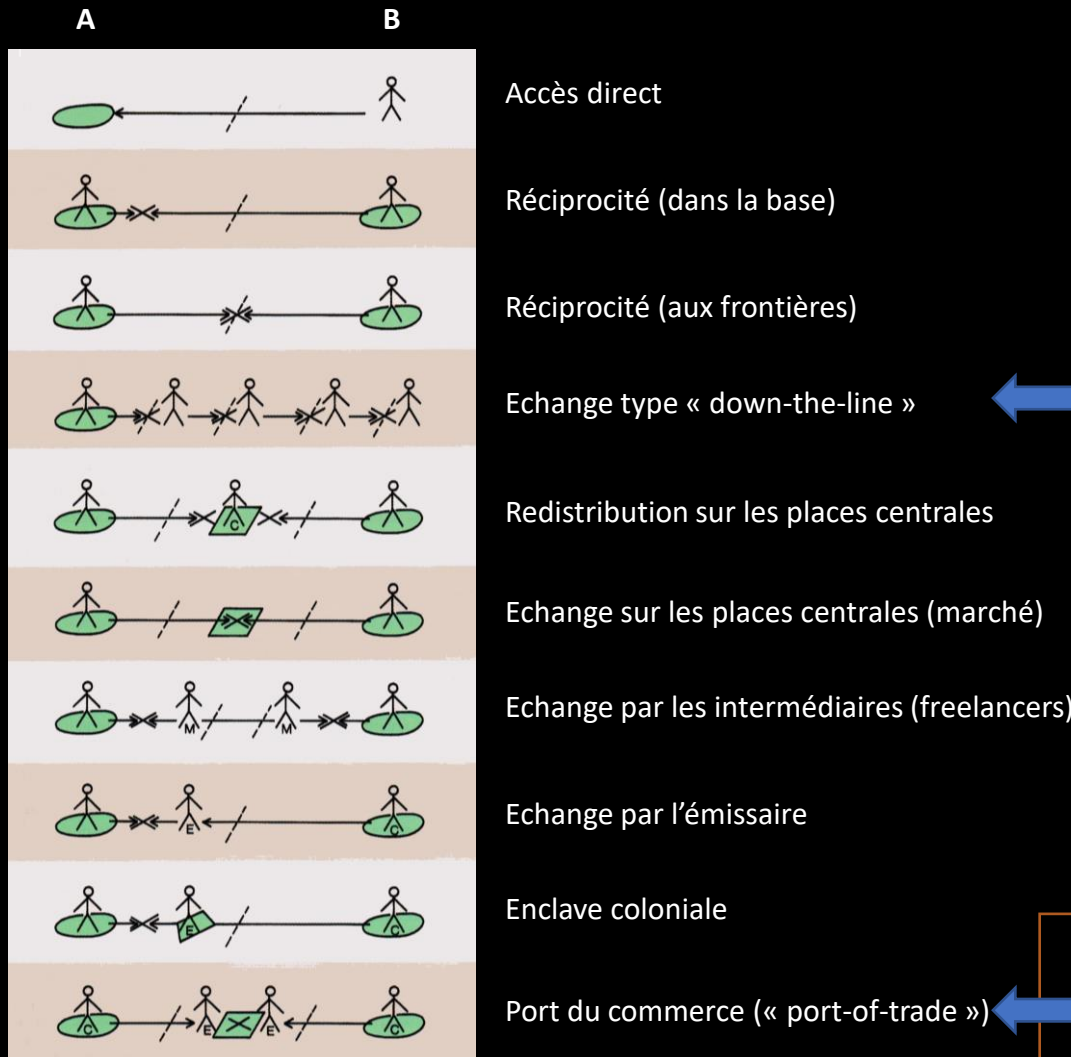
⇒ Mécanismes des échanges



Paul Bahn



Collin Renfrew



MAIS

traces nettes
et sans ambiguïtés

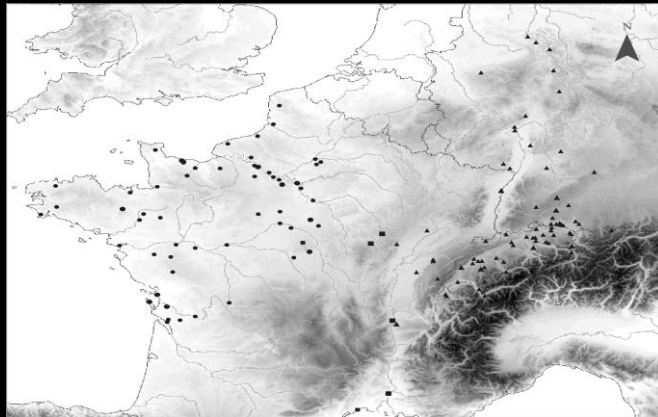
matériaux provenant d'origines différents
pas le centre d'administration
spécialisation en échange

Contacts et échanges

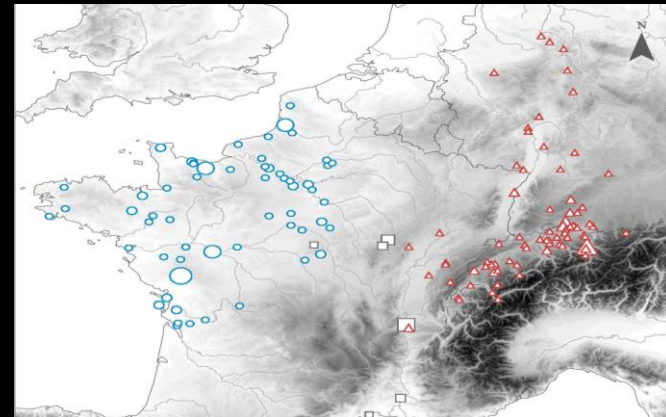
Etude de la distribution

⇒ Cartes de distribution

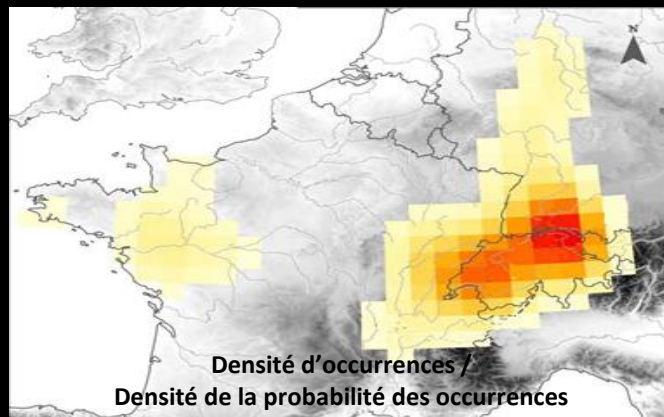
Cartes de distribution



Points

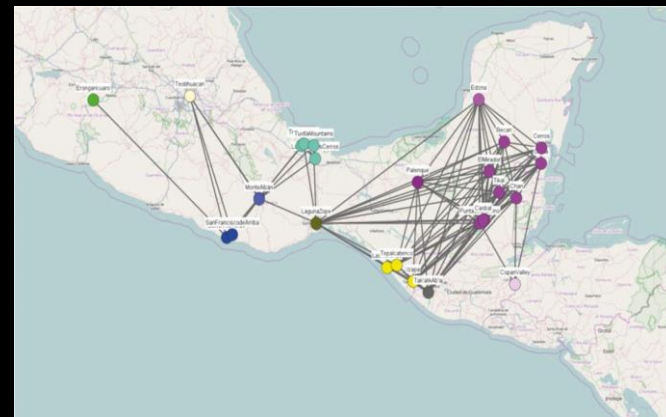


Quantités



Densité d'occurrences /
Densité de la probabilité des occurrences

Trend surface analysis



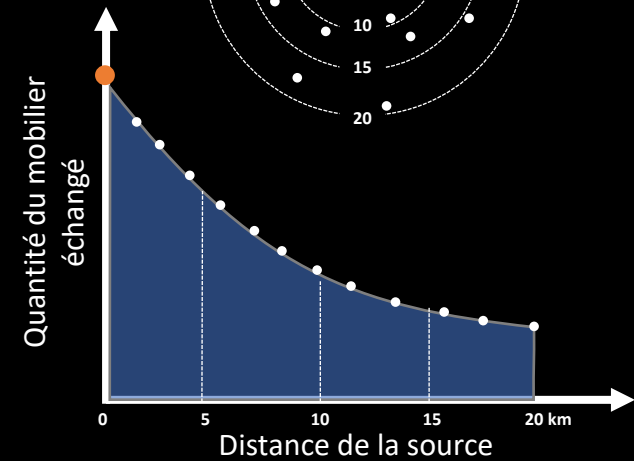
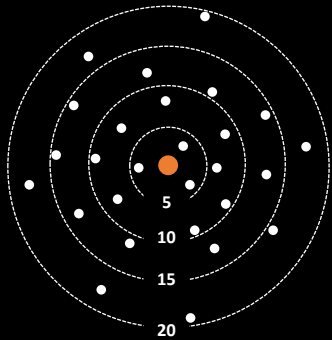
Analyse de réseaux

Contacts et échanges

Etude de la distribution

⇒ Fall-off analysis

Principe

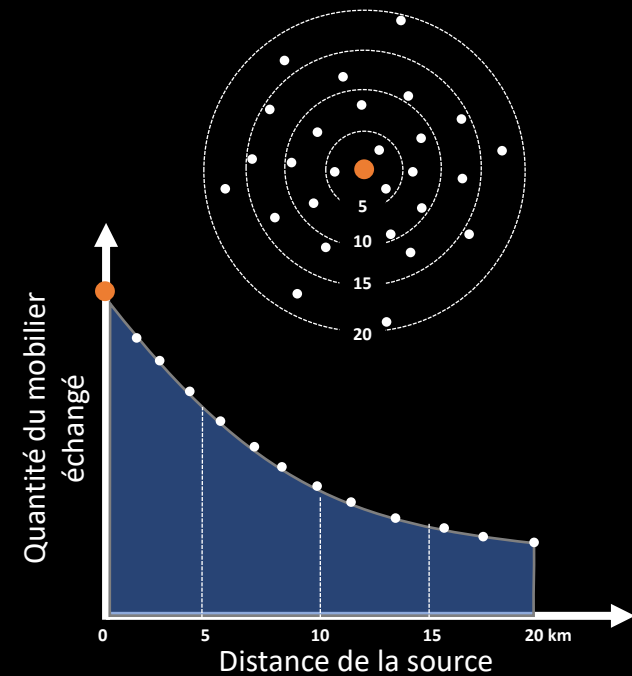


Contacts et échanges

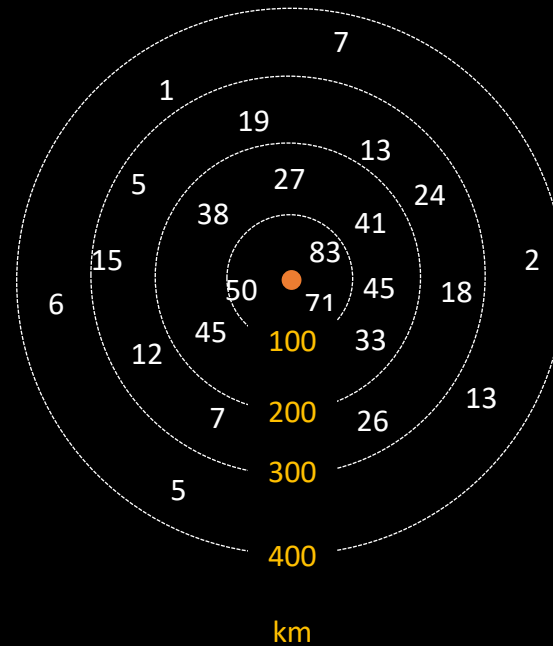
Etude de la distribution

⇒ Fall-off analysis

Principe



Exercice

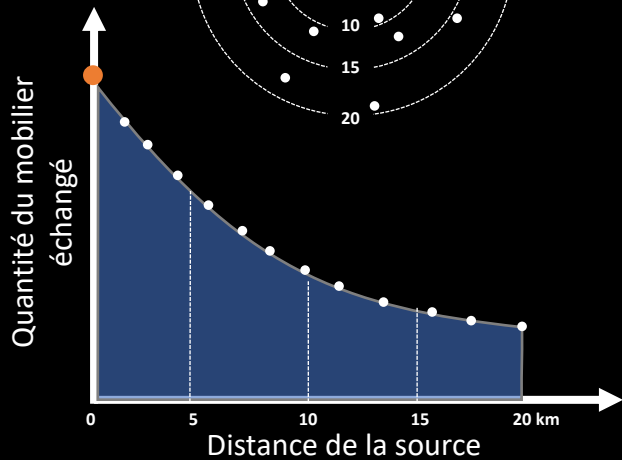
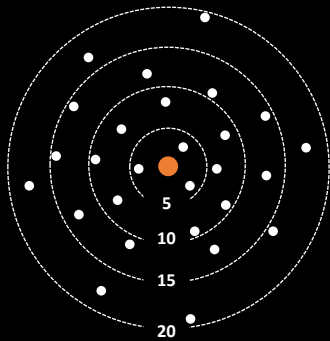


Contacts et échanges

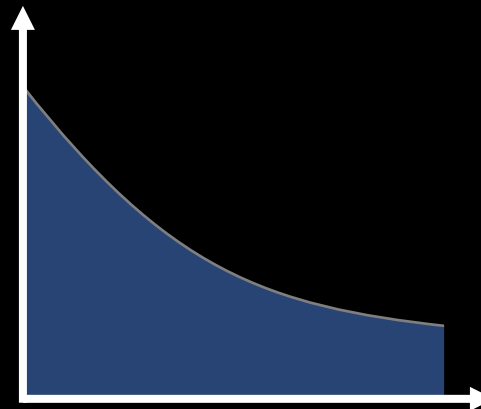
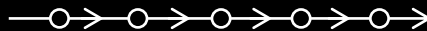
Etude de la distribution

⇒ Fall-off analysis

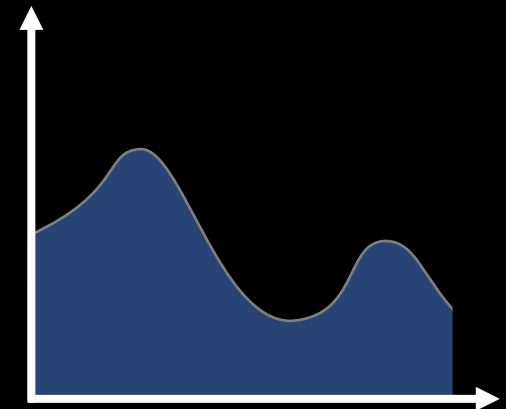
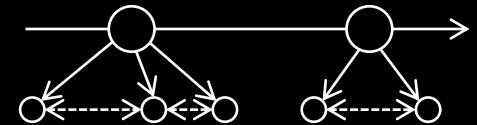
Principe



Echange type « down-the-line »



Echange directionnel entre les centres

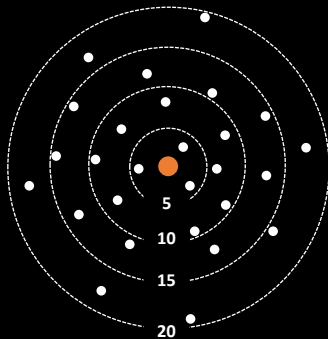


Contacts et échanges

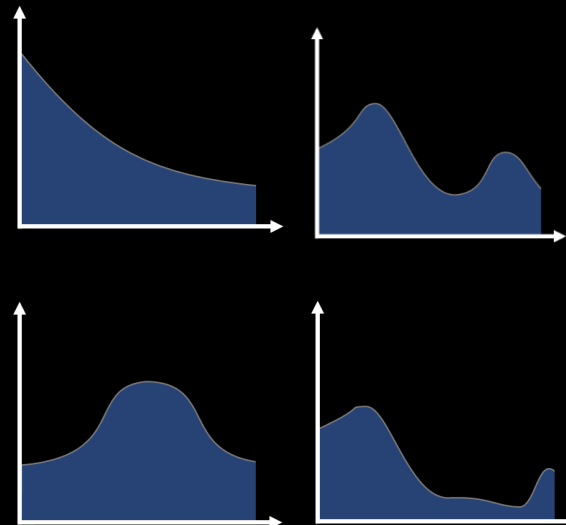
Etude de la distribution

⇒ Fall-off analysis

Principe

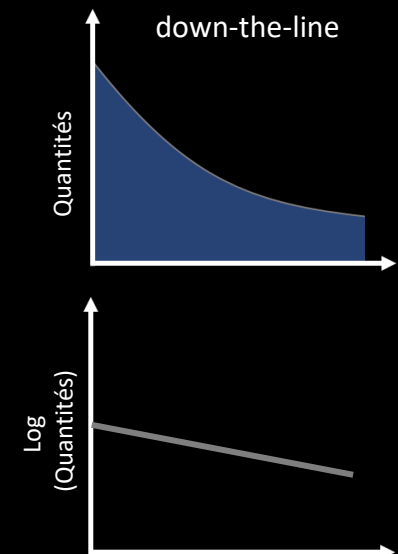


A quoi ça sert ?



Type des échanges
Différentes zones
Différents types d'objets

Transformation



Quantité du mobilier
échangé

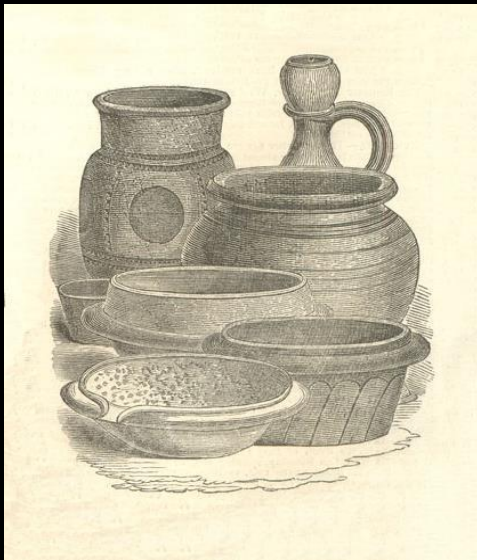
Distance de la source

Contacts et échanges

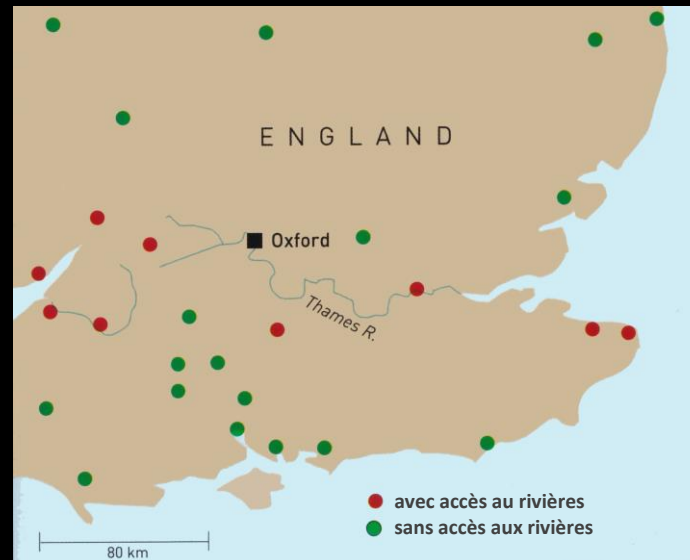
Etude de la distribution

⇒ Fall-off analysis

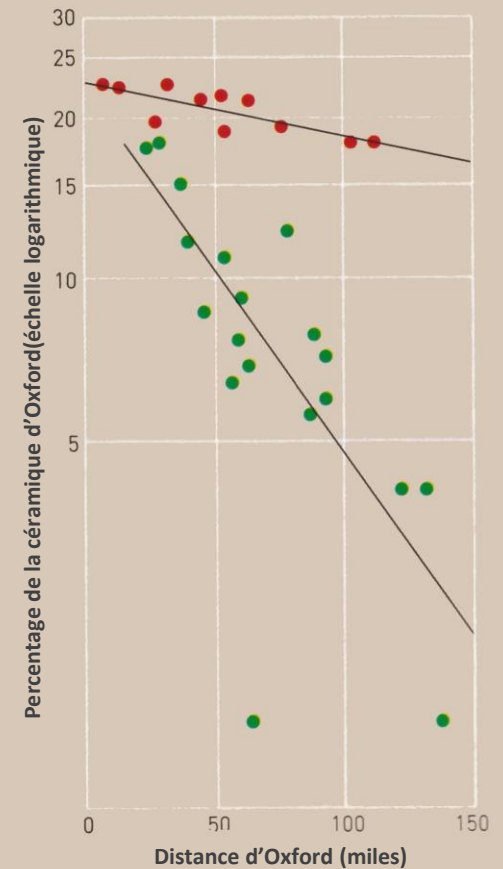
Poterie romaine d'Oxford



Carte de distribution de la poterie



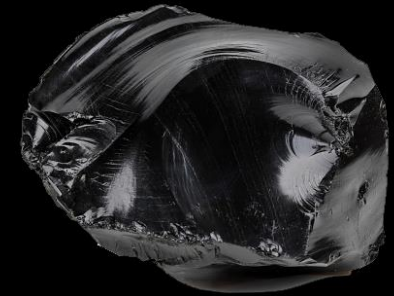
Fall-off analysis



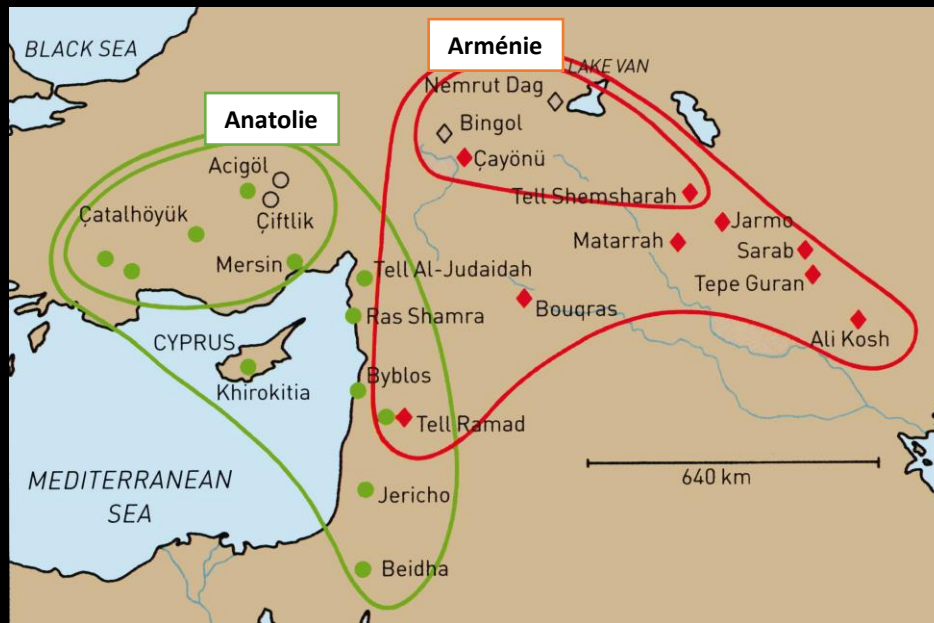
Contacts et échanges

Etude de la distribution

⇒ Fall-off analysis

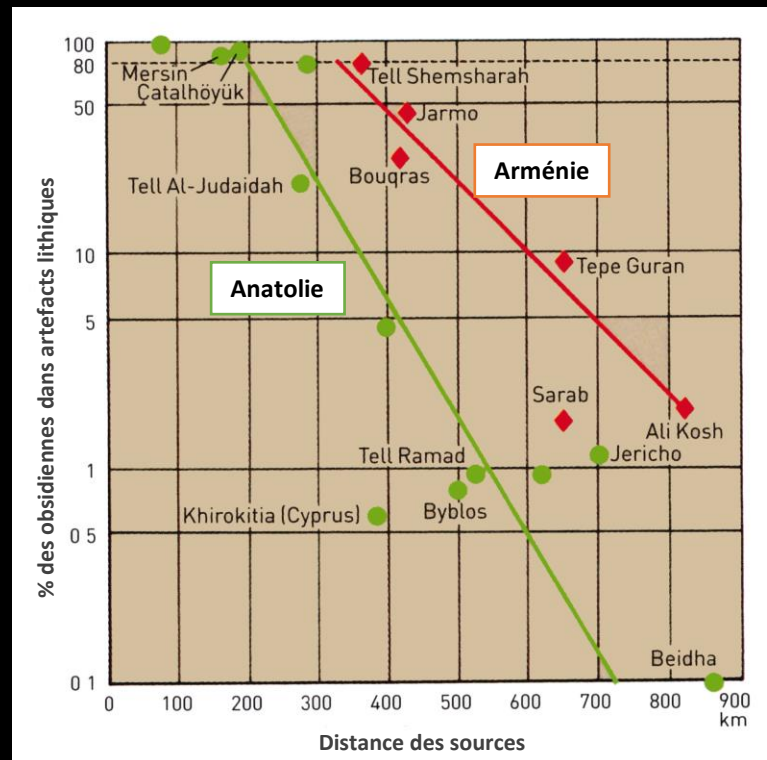


Carte de distribution d'obsidienne



7.000 – 6.000 BC

Fall-off analysis



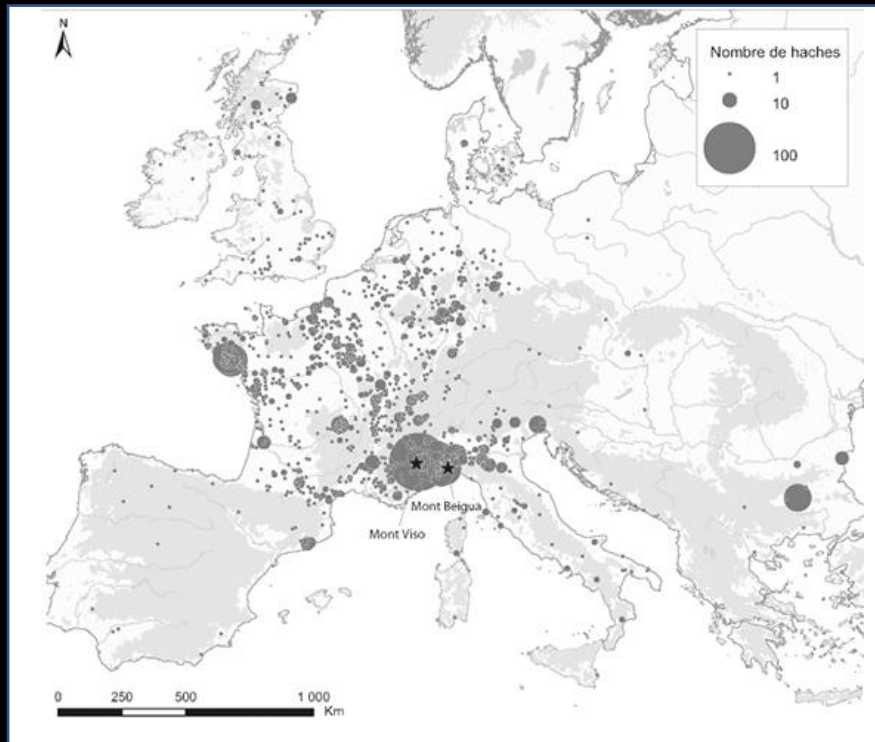
Contacts et échanges

Etude de la distribution

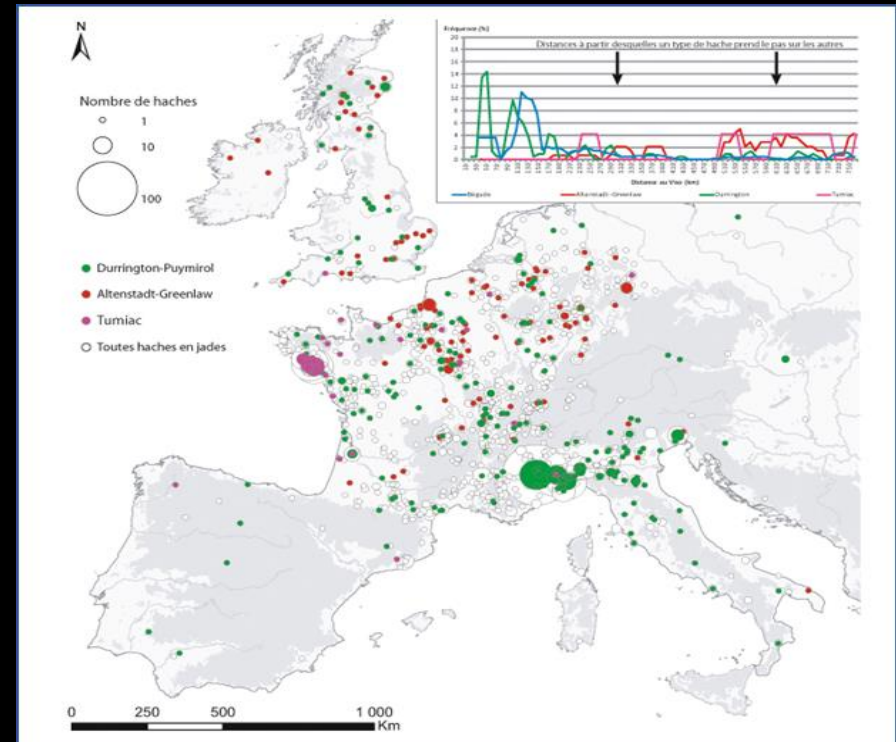
⇒ Fall-off analysis



Carte de distribution de jade



Fall-off analysis



Contacts et échanges

Etude de la distribution

⇒ Echange par la mer

Avantages et inconvénients



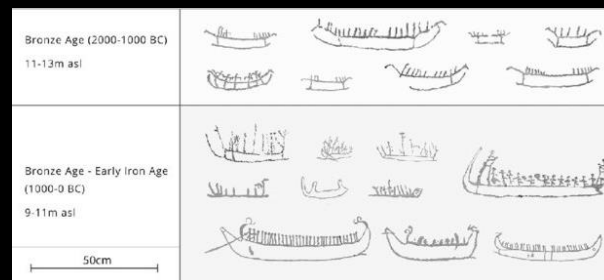
- + plus rapide
- + plus sécurisant
- + moins coûteux
- + long distances

- temps
- naufrages

Sources écrites / iconographie



Senenmut (~1500 BC)



Art rupestre

Sources archéologiques



Contacts et échanges

Etude de la distribution
⇒ Echange par la mer

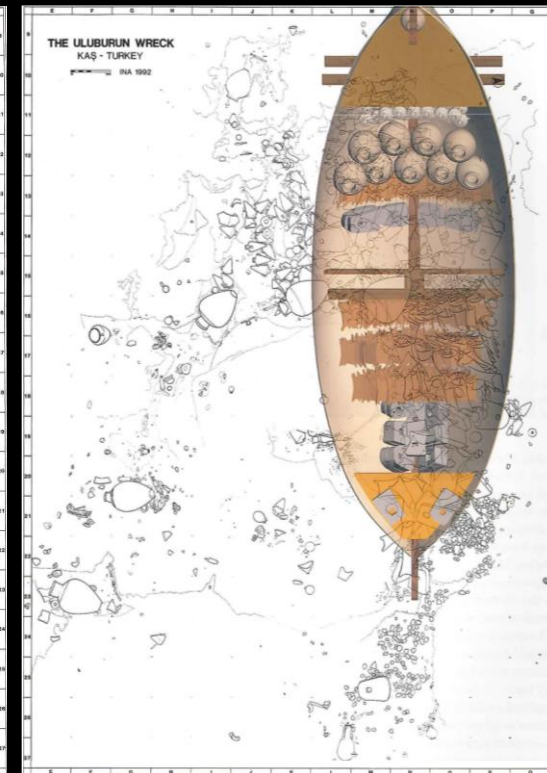
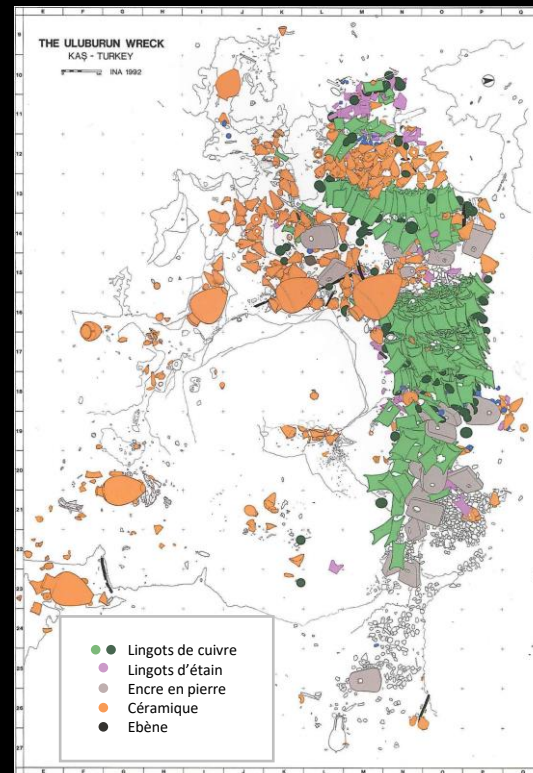
Epave d'Uluburun (TUR)



George Bass et Cemal Pulak



350 lingots du cuivre, 100 lingots d'étain, poterie, ivoire, ambre, œufs d'autruches, outils en bronze, tampons, lingots du verre, ...



Contacts et échanges

Etude de la production

Production (point de vu spatial)

Lieu d'origine

Lieu de transformation

Lieu de fabrication

Questions

Comment la production a été organisée ?

Les déplacements ?

Spécialisé ?

Quel type d'organisation ?

Quelle échelle de production ?

Sous quelle forme le produit a été transporté/échangé ?

Contacts et échanges

Etude de la production



Clay Singer



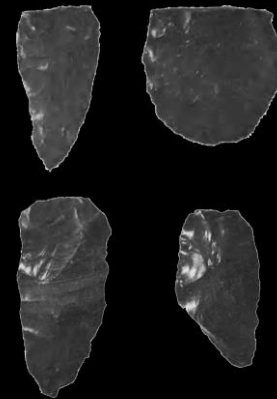
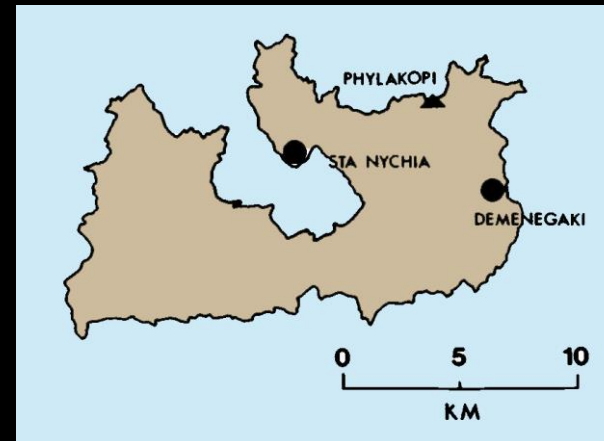
Robine Torrence

Carrières ~ artefact



The 63-kilometer fit
C. A. Singer

Obsidienne du Mélos



Monopole

vs.

Accès direct

Prospection + techniques d'extraction et de production

Contacts et échanges

Etude de la production



Philip Kohl

Bols en pierre décorés



Comparaison des productions

▲ Ancienne



haut niveau

▲ Récente



tous les gens

Contacts et échanges

Etude de la production
⇒ Tomahawks



Isabel McBryde



Alan Watchman

Tomahawks



Extraction et fabrication



Mont William



Contacts et échanges

Etude de la production
⇒ Tomahawks

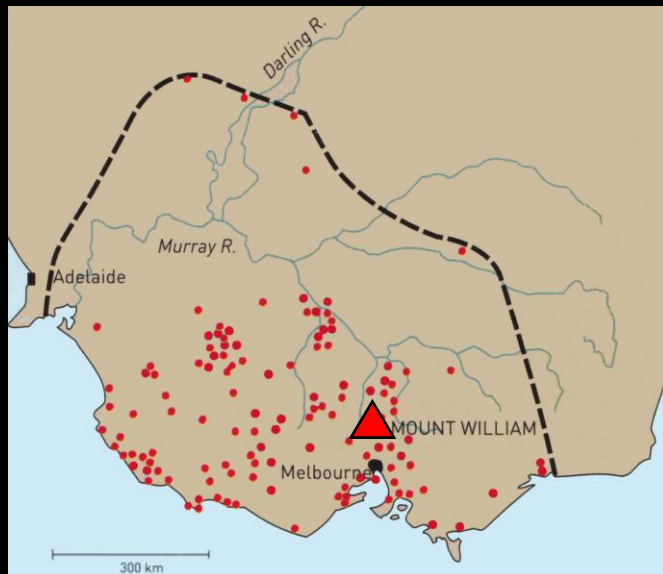


Isabel McBryde



Alan Watchman

Distribution spatiale



macroscopie / pétrographie / traces

Aspect social

un groupe de
propriétaires

accès limité
- par relation familiale
- par cérémonies

encore en 1830'
Billi-billeri

Echange



lances
(rivière Murray et Darling)

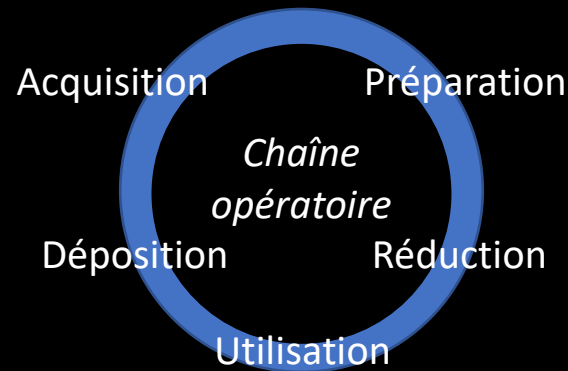


manteau d'opossum

Contacts et échanges

Etude de la production

⇒ production / chaîne opératoire



Céramique	Verre	Métal	Lithique	Autres
David Peacock	Natalie Venclová	Radomir Pleiner	Roger Grace	construction
Orton, Tyers, Vince	Joelle Rolland	Jean-Paul Guillaumet	Marie Soressi	textile
Prudence Rice	K. Janssens	Sylvain Bauvais	Gilliane Monnier	ossement
Olivier Gosselain	Haevernick	Philippe Fluzin	Ofer Bar-Yosef	bois
Pierre Pétrequin	Moa Råhlander	Marion Berranger	Philip Van Peer	ivoire
Valentine Roux	Maciej Karwowski	Philippe Fluzin	Alain Turq	molusques
Rémi Martinaux	Angela Pauline Susak Pitzer	Elizabeth G. Hamilton	Eric Boeda	agriculture
Alexandre Livingstone Smith	...	Natalie Venclová	K. DiModica	funéraire
Schiffer, Rye		...	...	...
...				

Contacts et échanges

Etude de la consommation

Difficultés

N d'objets trouvés

≠

N d'objets utilisé

transformations

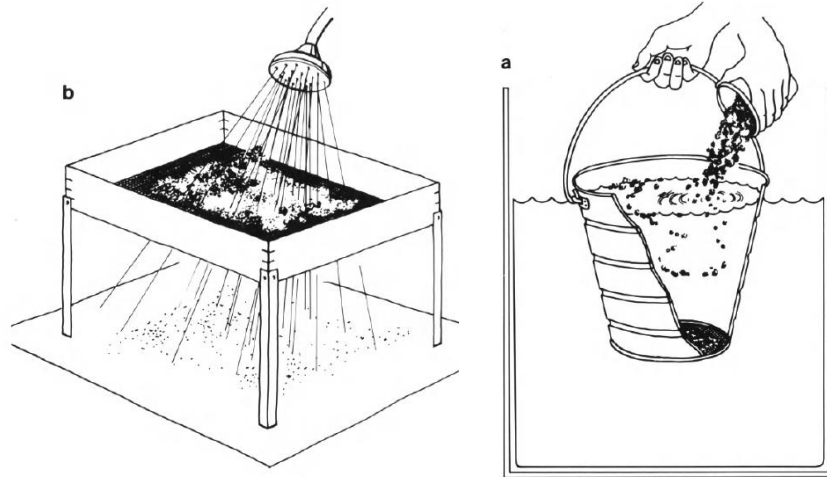
réduction

fragmentation

accumulation

duré de vie

Tamisage / flottation



Contacts et échanges

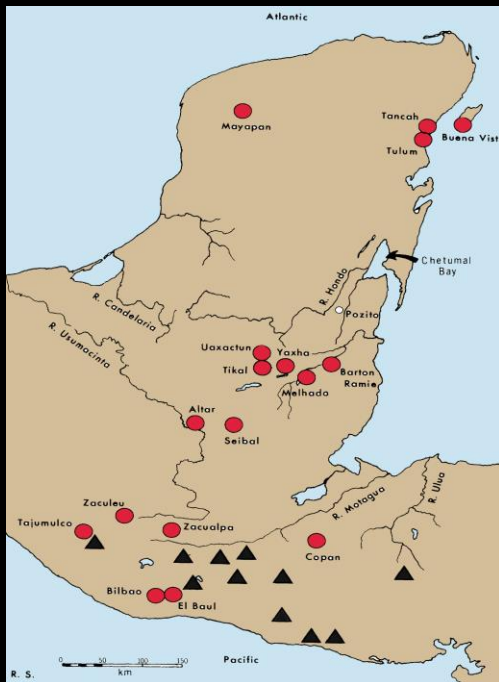
Etude de la consommation

⇒ consommation d'obsidienne



Raymond Sidrys

Distribution spatiale



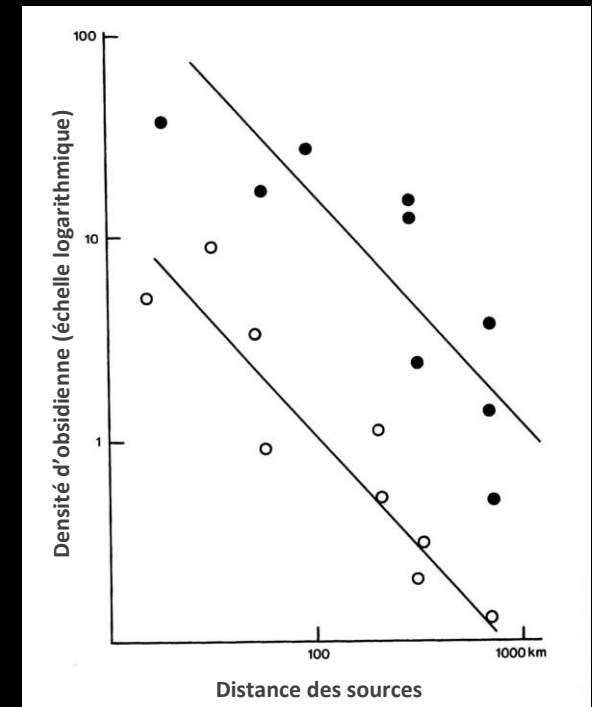
- 9 centres majeurs et 9 centres mineurs
- △ sources d'obsidienne

Densité et rareté

$$DO = \frac{\text{Poids d'obsidienne}}{\text{Volume de terre}}$$

$$RO = \frac{\text{Nombre d'obsidiennes}}{\text{Nombre de tessons céramiques}}$$

Fall-off analysis



Contacts et échanges

Système complet des échanges et interactions

Difficultés ...

Quoi échangé contre quoi ?

N d'objets trouvés $\neq$ N d'objets utilisés

transformations

réduction

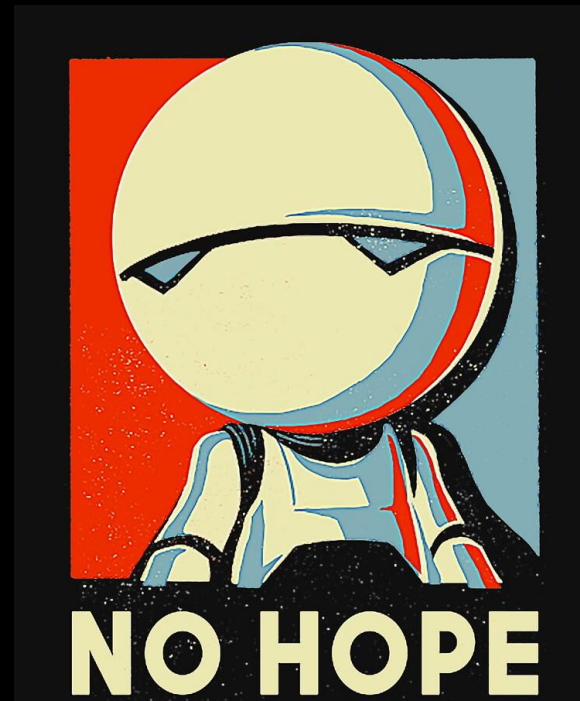
fragmentation

accumulation

duré de vie

contemporanéité

...



Contacts et échanges

Système complet des échanges et interactions

⇒ Mésoamérique (1450-500 BC)

FORMATIVE MESOAMERICAN
EXCHANGE NETWORKS WITH SPECIAL
REFERENCE TO THE VALLEY OF
OAXACA

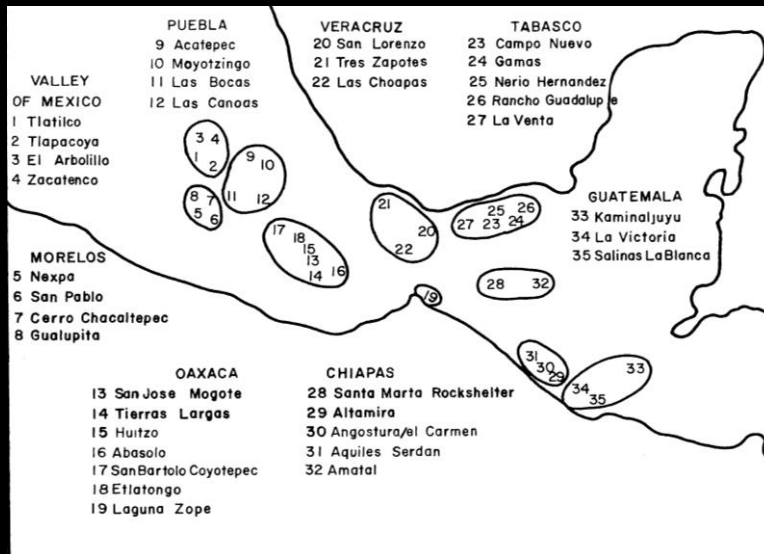
Jane W. Pires-Ferreira

Memoirs 7

Museum of Anthropology
University of Michigan

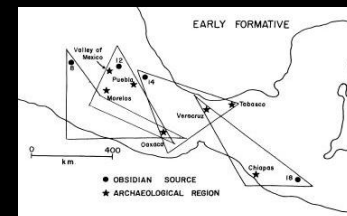
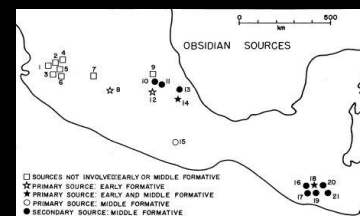
Jane Pires-Ferreira

10 zones



5 circuits d'échange

Matériel	Méthode	Résultat
Obsidienne	ANN	9 sources
Coquillages	Macroscopie	2 sources (pacifiques, rivières)
Fer	Spectroscopie	3 sources (magnétite, ilménite, hématite)
2 types de poterie	Forme et style	Oaxaca, Veracruz



...

Contacts et échanges

Système complet des échanges et interactions

⇒ Mésoamérique (1450-500 BC)

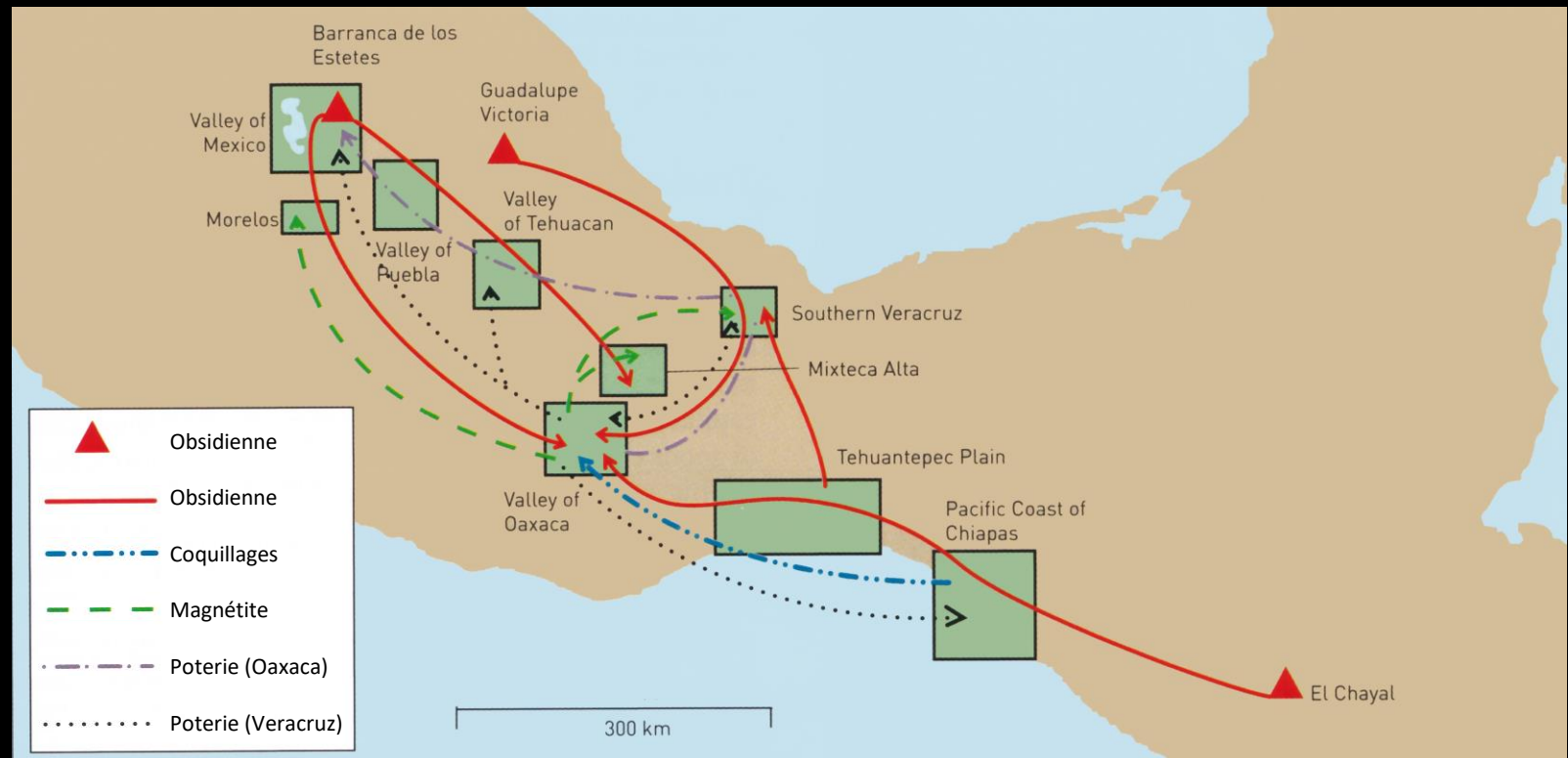
FORMATIVE MESOAMERICAN
EXCHANGE NETWORKS WITH SPECIAL
REFERENCE TO THE VALLEY OF
OAXACA

Jane W. Pires-Ferreira

Memoirs 7

Museum of Anthropology
University of Michigan

Jane Pires-Ferreira



Contacts et échanges

Système complet des échanges et interactions

⇒ Monnaies

Pourquoi monnaies ?



Préservation

Visibilité

Documentation

Datation

Interactions et échanges + intensités

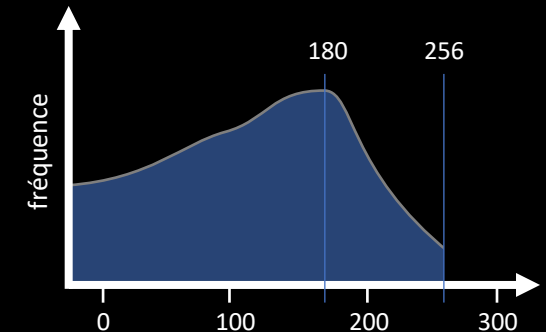
Doura-Europos (J.R. Clark)



Etude



~ 11.000 pièces (30 BC – 256 AD)



Contacts et échanges

Système complet des échanges et interactions

⇒ Echanges entre Empire Romain et la Germanie Libre

Lotte Hedeager

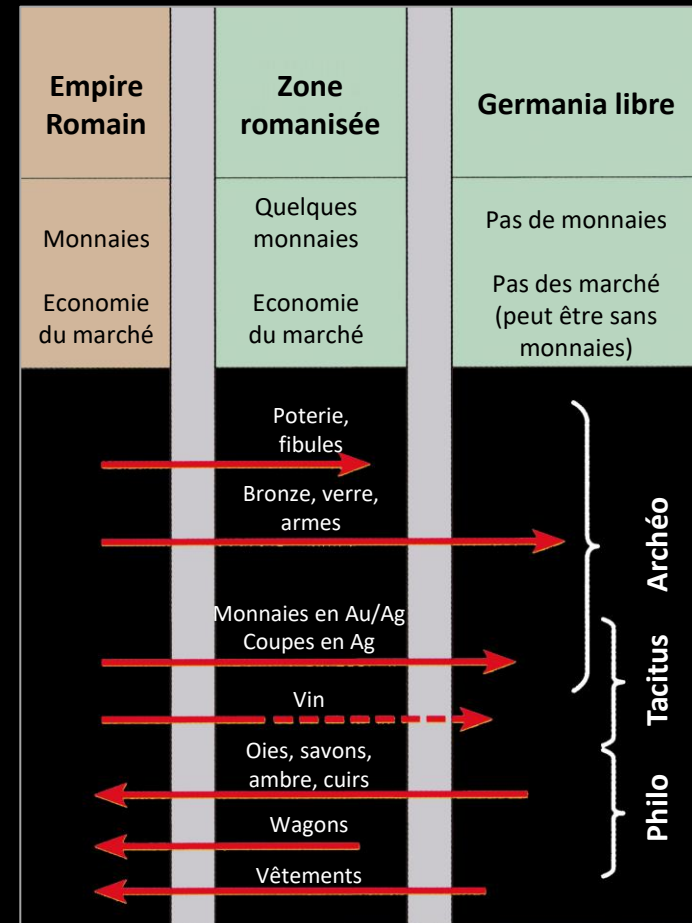


archéologiques
historiques (Tacitus)
philologiques

3 zones



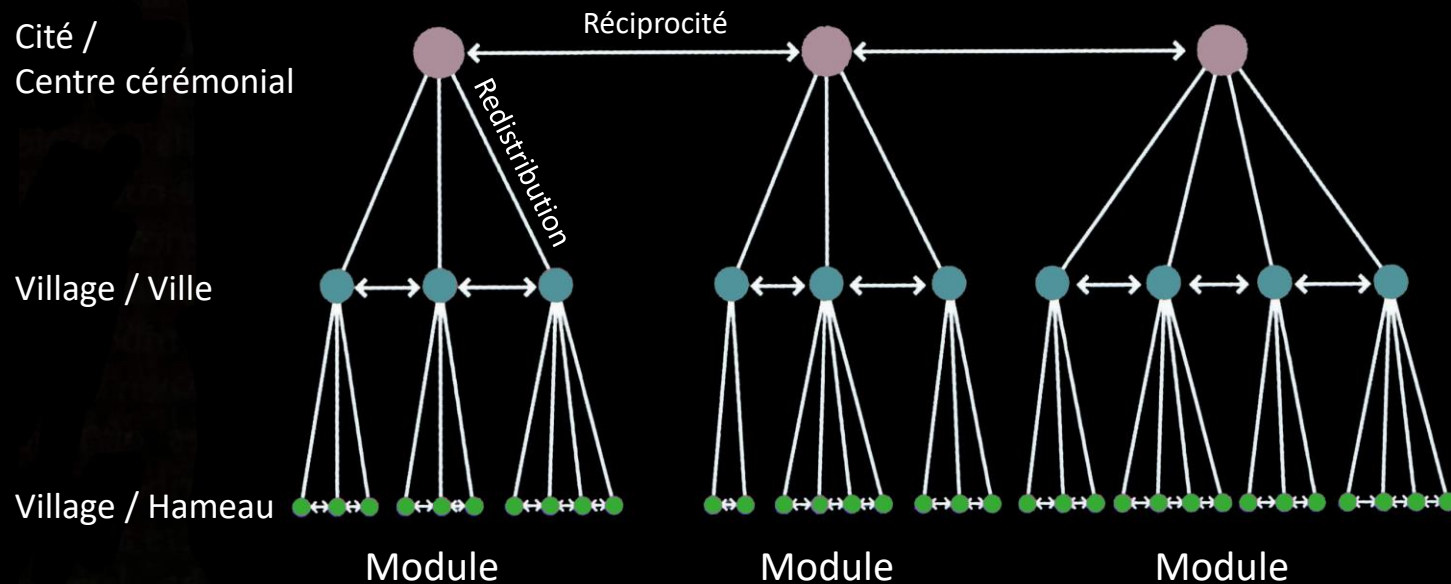
Model d'échange



Contacts et échanges

L'échange et les changements dans la culture

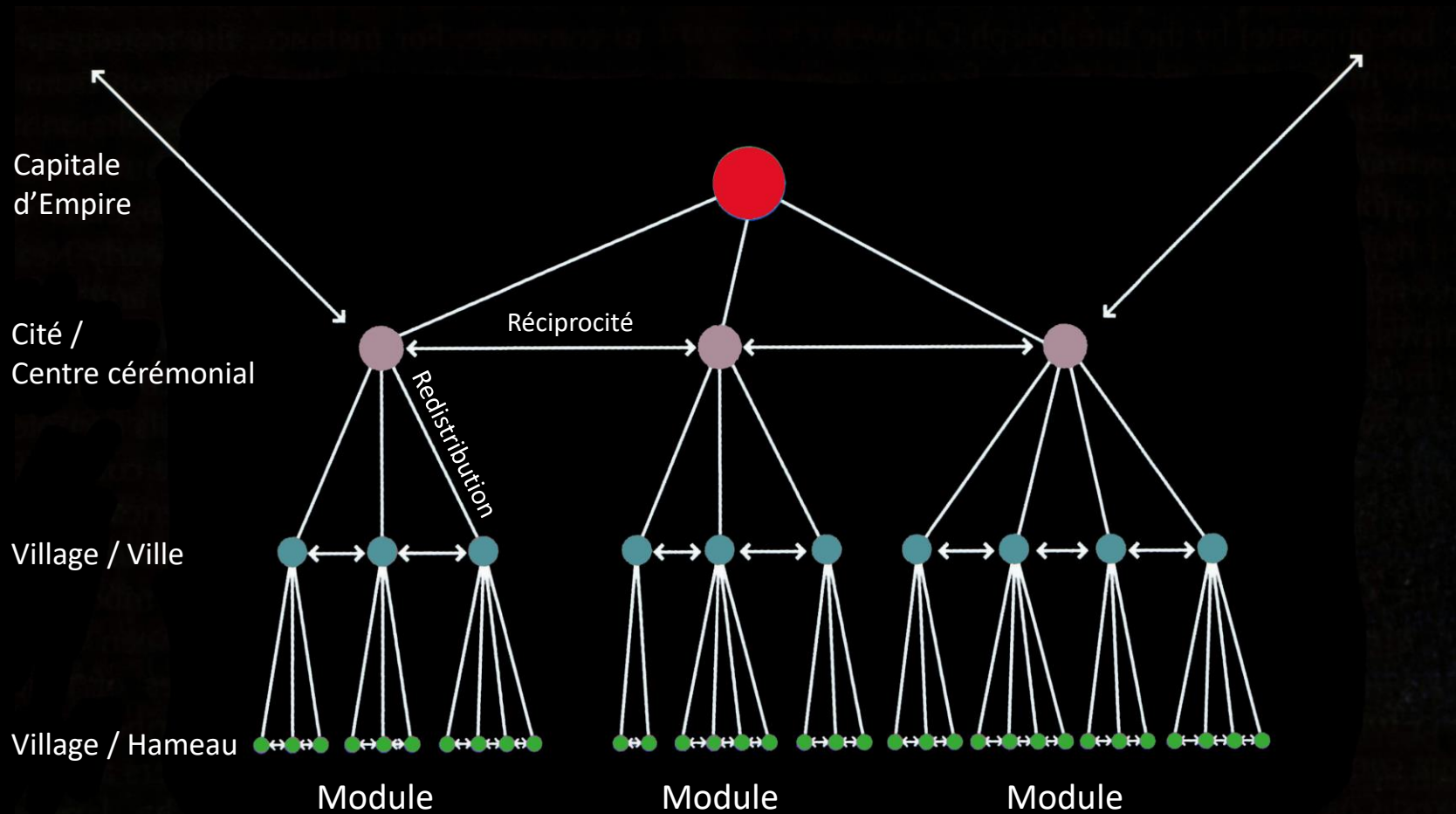
⇒ Explication du développement des cultures/civilisations



Contacts et échanges

L'échange et les changements dans la culture

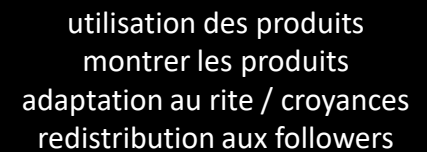
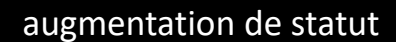
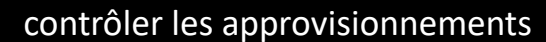
⇒ Explication du développement des cultures/civilisations



Social Transformations in Archaeology

Susan Frankenstein &
Michael Rowlands

Comment ?



HC

HD

LT A

LT B1

LT B2

LT C1

LT C2

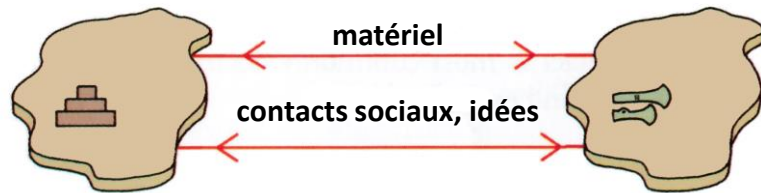
LT D1

LT D2

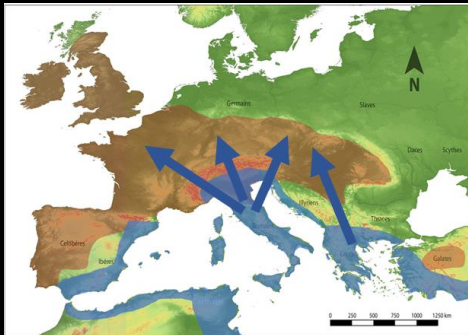
Contacts et échanges

Echange symbolique

Echange

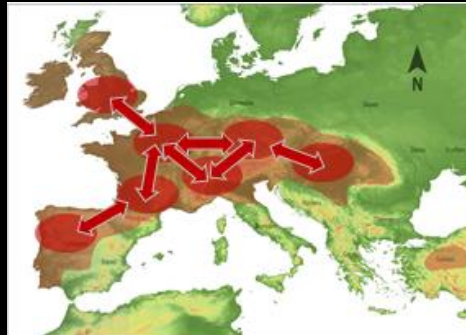


Dominance / diffusion



centres développés ~ non-développés

Peer polities



polité ~ polité

Types de contact et d'échange

La compétition

Emulation compétitive

La guerre

La transmission des innovations

Echange symbolique

Echange cérémonial des objets des valeurs

Echange des objets « ordinaires »

Echange de la langue

Contacts et échanges

Echange symbolique

⇒ Peer-polités

La compétition

Rituel



Compétition (physique & mentale)



Emulations compétitives



Sport (ball game, JO), danse, chant, poésie, oratoires,
discours, défilé militaires, Eurovision, ...

Contacts et échanges

Echange symbolique

⇒ Peer-polités

La guerre



rituels

conquêtes du territoire

vendetta

discours

dominance

...

Transmission des innovations



Outils, technologies, techniques, styles, ...



Adaptation de la céramique chez les chasseurs-cueilleurs (Californie)

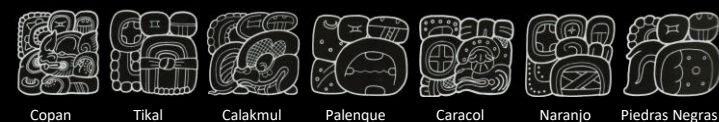
Echange symbolique



Cernunnos => St. Cornély



Dana => Ste. Anna



Contacts et échanges

Echange symbolique

⇒ Peer-polités

Echange cérémoniel des objets de valeur

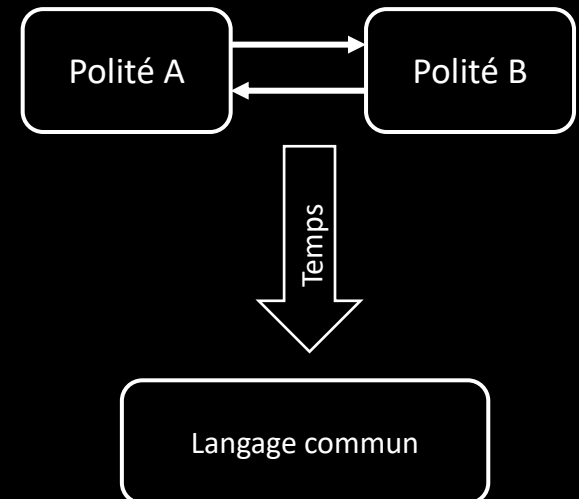


Objets ordinaires



...

Echange de la langue



Références

Littérature / Images

Renfrew, C., Bahn, P., 2015. Archaeology. Theories, Methods and Practice (6th edition all in colour). Thames & Hudson. London.

All materials and images were used here
for educational purposes only.

Introduction

Références

Images / web

[illegible]

Introduction

Références

Images / web

<https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcSdAWGc3R8GP3uzBO8HCNlTlHn354RyRvgS9AUrjw9Lo0ES5KZSd8M5Yp5wgdsRUwDGHI&usqp=CAU>
<https://external-preview.redd.it/FNSoJsW9TLsGeKKkJKR-duXAQsV3RtaeaLWgF2y3E54.jpg?auto=webp&s=8ace40040b1691eae24fe8a42737b6772e09dc1>
https://handling-solutions.eppendorf.com/fileadmin/_processed_/4/a/csm_Figure1_CentrifugeGuide_Precipitate_supernatant_5ce048dce7.png
<https://historyonthistday.com/wp-content/uploads/2018/04/Moctezuma-Herando-Cortes-667x450.jpg>
https://hradec.rozhlas.cz/sites/default/files/styles/cro_16x9_tablet/public/images/6719891c165df1629412f0fe9daf99fa.jpg?itok=jVDEEEvF
https://i.dailymail.co.uk/i/pix/2016/06/29/19/35CA7BE200000578-0-image-a-64_1467226123512.jpg
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<https://i.imgur.com/XGb4h9W.jpg>
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<https://i.pinimg.com/originals/ac/94/0b/ac940b193358bd963aed114f03b50ae7.jpg>
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https://icon-library.com/images/painter-artisan-paintbrush-painting-artist-512_3877.png
<https://image.invaluable.com/housePhotos/theodorebruceauctions/78/703278/H3561-L257916845.JPG>
<https://image.shutterstock.com/image-vector/chemistry-icon-260nw-349561589.jpg>
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<https://journals.openedition.org/archeosciences/docannexe/image/4856/img-1-small580.jpg>
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https://kolemsveta.cz/wp-content/uploads/2020/02/Martin-Drahorad-MNX3_2.jpg
<https://ladoxaendebat.files.wordpress.com/2017/02/index1.jpg>
https://lh3.googleusercontent.com/RTsRajki-6BhcOviY2EGdmjeds_EcdAsv9wUE6DOn-HSRQG3bXa1oWXiAxbw6TrBQhFgg=s85
https://m.media-amazon.com/images/M/MV5BZTNjN2MwMDYtODJmNC00Nm12LWI1OGEtNm14YzU3NTNjZmM3XkEyXkFqcGdeOXVvNjUxMjc1OTM@._V1_.jpg
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<https://maritimehistorypodcast.com/wp-content/uploads/2015/10/ULuburun-v7a-Final-Art-2376da065dd7f4e3ab92e987411e72c0.jpg>
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