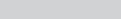


- First, fold each A4 sheet in half along the vertical axis.
- Using a craft knife or scalpel, cut a horizontal slot along the centre dotted line of the first A4 sheet. (pages 1/2/13/14)
- Then cut along the dotted lines on all the other sheets. Make sure to cut to the very edges of the paper.

Stack the folded sheets in ascending order with the even numbers at the top. Curl the bottom half of the second A4 page (pages

Thread the curled page through the centre slot of the first A4 page. Repeat this process with the third (pages 5/6/21/22), fourth (pages 7/8/19/20), fifth (pages 9/10/17/18), and sixth A4 sheet (pages 11/12/15/16) with the even pages in ascending order.

When all the pages have been threaded through, check the pagination. Finally, fold the booklets in half along the horizontal





<u>LABOURS OF</u> LOCATION

Military conversion, staging a 'centre of calculation' in an art context may be a tactical act in itself, but the simple overlay of geometries and perspectives did not add up to a oppositional message, the user experience was one of determinism, what was on view was a spectacle and not a subversion of the all-powerful visibility techniques. The project exhibits a general problematics of tactical media: its targeted microinventions often display an affinity with that which they seek to oppose.(39) Maps remain strategic tools: technologies for governing at a distance, and their use for oppositional or creative purposes may just end in a reproduction of their spatio-temporal dynamics and structural logics, in a benign form of irony. It thus is all the more important to deconstruct existing mapping techniques and to develop new formats.40 Moving in this direction are projects in collaborative cartography such as London Free Map(41), where open-standard maps are redrawn from bottom-up by gps-equipped walkers,

Most often the overlay of these perspectives is represented through maps, on which the geospatial hotspots are dotted and the users' mobile trajectories plotted. This type of conflation was presented in the *Cartographic Command Centre* a collaboration of the Locative media lab, Project Atol and others, where maps of different scales – from satellite images to biomapped pedestrian paths and bicycled location video stream – were brought together in a stereoscopic 3D projection.

media – a *sedentary*, static mode of maps and archives and an *ambulant*, mobile, in-between mode; that of walking art practices.⁽³⁹⁾

> A lot of thought and action has been dedicated to the 'pervasive' media environment recently by artists, cultural producers and theorists. Ubiquitous computing, broadband media, wireless and wearable applications, collaborative tools and social software form a sociotechnical assemblage that transforms our spatial experience and opens up new potentialities both for experience and opens up new potentialities both for regimes of power and for social inventiveness.

> We are already familiar with the re-invention of spatiotemporal practices with mobile phones. To these atreet-level user cultures, the spatial technologies of GIS databases, GPS positioning, RFID tracing and CCTV networks add a totalizing grid and mesh of surveillance. Further, ubiquitous or pervasive computing involves the idea of 'invisible computers' embedded in objects and spaces, 'smart' devices that can exchange information with each other over continuous networks and act together in a 'seamless' manner. The vision is to make "environments saturated with computing and wireless "environments saturated with computing and wireless

> The emerging landscape of ubicomp is thus an environment of translation, where aspects of agency and 'awareness' are delegated from humans to machines, computational processes and databases. Especially in cities, software is omnipresent as a kind of 'local intelligence', infused into every fabric of urban life. Nigel intelligence', infused into every fabric of urban life. Nigel software, through a series of performative 'writing acts', contributes to an automatic production of space which

ΤΗΕ ΤΑCTICAL/STRATEGIC ΟVERLAY

A walk /each day /in different shoes. A walk /along a fold in a map.

A walk /without landmarks.

A walk /to the horizon beyond this page.

A walk / along an imagined line across your city

Simon Pope, Walking Texts, 2005

discerns two modes of knowledge at play in locative geometries. And of epistemic frameworks: Simon Pope representations thus perform overlays of various power Besides overlays of physical and virtual worlds, locative' entirety, without being able to keep it at a distance." other's place, fragmentarily, without taking it over in its processual activity "which insinuates itself into the distance, tactic is a non-localised, temporal and its environment, acting on the objects and targets from a tactic. If strategy is about assuming a place isolated from Michel de Certeau's distinction between strategy and and experiences. The two types of gazes coincide with flâneur and the tourist, in search of consumable places pedestrian' perspective, the fleeting glance of the vision and atomic clocks - with the situated, embodied - the frozen military 'view from nowhere' of satellite based arts? The 'locative' gaze conflates a god's eye view What, then, are the visual practices involved in location

are performed into being? 'ธินเววย pue gnixnidt 101 , seitilaitnetoq progress in science and society? What kinds of minor and mundane linked to grand narratives of

e io noiznav zzanponq-ni-know e zi aliita producer. She is director of m-cult, centre Minna Tarkka is a researcher, critic and

.eibəm wən pnimnoinəP chapter in her doctoral dissertation for new media culture in Helsinki. This

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WINNA LAKKA ACTING IN THE PERVASIVE MEDIA SPACE **ΓΑΒΟURS OF LOCATION**

sond for sonsol

conditions our existence by a continuous rewriting, standardisation and modulation of urban situations and rhythms.⁽³⁾

However, instead of hegemonic or conspiracy theories of machines taking over, Thrift and French stress the contingent, distributed, ad hoc, and patchedup nature of this computing environment - a 'technological unconscious' rooted in the software cultures of programmers. This perspective prompts us to look closer at practices: it is through the mundane and minor - through everyday activities of programmers,⁴⁹ designers and developers - that new forms of the social are being thought up and put into action With the focus on practices, account is taken of the tools and discourses of the work process - but also of the various kinds of invisible work and immaterial labour that are involved in the activity of production.

Of special interest here is the artistic and activist practice of the ubicomp environment, recently subsumed under the banner of 'locative media'. It is crucially important that cultural producers intervene in this space whose parameters are set by the military and ICT industries: not only as 'early adopters' to develop cultural and social applications to new technologies, but importantly, through their capacity to create new 'pervasive imaginaries' and to resist the totalizing tendencies and closures of ubicomp spaces. In addressing these labours of location, the key questions relate to how practices are positioned and negotiated within networks of culture, technology and society. What are the tactics and strategies and how effective are they? How is the

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cultural and social structures.

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whether print or electronic, be sold by any third party without prior print out. Under no circumstances should any version of this publication, DIFFUSION eBooks are designed to be freely available to download and

physical relate to each other, and how technological advances attect existence, intervening in current debates on how the virtual and the Species of Spaces questions the trajectory of contemporary urban physical, emotional and social – what Perec called the "infra-ordinary" in the contemporary world of the twenty-first century - the virtual and Perec's eponymous book. The series contemplates how we occupy space for the series Species of Spaces - inspired by and in homage to George I his publication is one of a series of essays commissioned by Proposcis A catalogue record for this publication is available at the British Library τε

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Stephen Graham?® emerging discipline of urban ICT studies proposed by urbanism; perhaps the artistic counterpart to the this list we can infer that locative media is about Michel de Certeau, Kevin Lynch and Archigram. From Guy Debord and the Situationists, Gordon Matta-Clark, of locative media, the most often cited forefathers are with a search for antecedents and originators. In the case

information. projects and collaborations, exchanging useful solving mode, tackling with technicalities, proposing practices, the discussion has mostly been in the problemseminars. Instead of a problematization of locative connected by mailing lists and a chain of workshops and within the geographically dispersed locative community, Not too many critical debates have taken place

central server, as is the case of Proboscis. This walled distributed in a peer-to-peer mode and not stored on a by referring to network topography - the media should be spokesperson of the Locative media network, responds cultural constructions.⁽²³⁾ Marc Tuters, a key places, seen as spaces of lived experience, social and location." Instead of locations, he proposes to talk about longitude and latitude coordinates that specify a content to the most banal definition of place - i.e. the Cartesian idea of space, a "desire to simply lock digital locative media's inherent reliance on the abstract within the community. Giles Lane of Proboscis opposes sqms, eand revealed some usthem positionings, camps understandings of space and place – a classical topic as Terms for an initial debate span from different

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One camp is comprised of wild eyed zealots who are fervently convinced

that we need to have freely available, machine readable, open licensed geodata, and will do anything to make that happen. The people in the other camp ... stare into your (wildly flashing) eyes, their pupils dilate slightly and in a cracked bass exorcist monotone they say 'We have a very good relationship with the Ordnance Survey'.

University of Openness/Faculty of Cartography, Why London Free Map? 2004

'Locative media' is a loose common nominator for artists, developers and activists who explore the possibilities of mobile, location-based and other pervasive technologies. Their practice has presented a rich variety of projects ranging from participatory annotation of space to platforms for moblogging or biomapping, from exercises in psychogeography and collaborative cartography to experiments in public authoring, mobile imaging, sound and performance. The writing that accompanies the projects involves utopian and dystopian reflections, playful and poetic manifestos as well as programmes for design and policy action." As is typical of any media still in the making, there is a lot of 'weak rhetoric': a hetereogenous mixture of concepts, tools and genres that are not yet aligned.⁽¹⁾ There is also the familiar romance with the 'new' in media; a passionate fumbling where a temporary loss of historical sense is combined

SPACE, PLACE, CASE (OR RACE)?

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Location-Based Media in Urban Public Space." http://www.futuresonic.com/futuresonic/

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absent and present."(17) unfold because it mobilises distant actants that are both snoitse and actions happens and actions A science and technology studies. "The local is never local. John Law point out from the relational approach of asymmetries and 'localise' others, as Michel Callon and which 'content' can be placed. Locations also create treating locations simply as containers, 'in' 'at' or 'by' relational understanding of location, one that is not relations of possession.an This already allows a more causes and means, and even qualities, sensations or can, besides location and movement, also indicate time, performative force. Even the six Finnish locative cases e even veht; then; that anticiting or inhabiting them; they have a point about the locative cases is that they transform the

colonizing effects on neighbourhood. and gender, and about locative media's potentially been largely silent about issues of globalisation, ethnicity Locative media, as a new technology of localisation, has differences has shaped our contemporary worldview." understanding how the historical development of those race, gender and class, and in doing so prevents us from which "evades categories of embodied difference such as the contemporary mapping-and-hacking enthusiasm the locative list was initiated by Coco Fusco's critique on absences in locative discourse. Another debate thread on The question of localisation brings us to some

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open source architectures, Tuters predicts.(13)

Lefebvre, Henri 1991. The Production of Space. Oxford and

garden' approach is to be made obsolete by semantic web, an esperanto for the internet, and the creation of

So there seem to be two versions of urbanism here, the one more cartographic, the other more ethnographic

in orientation. Connected to these are questions of

openness of structure and ownership of tools. But the

discussion doesn't stop here. "Locative is a case not a

place," Karlis Karlins reminds the list readers about the

linguistic origins of the term, which was inspired by

languages such as Latvian and Finnish with their several

locative cases - corresponding roughly to the preposition

'in', 'at', or 'by', and indicating a final location of action or

a time of the action.49 In his posting, Karlins seems to be

proposing a purification of the term in almost

that a lot of locative development deals with semantics

and formalisms needed for the description of space, the

storage and retrieval of media and the creation of

algorithms. Here artists complement and contradict the

evolving 'universal' standards for geography (OpenGIS)

or navigation (W3C) markup languages by proposing

more particular metadata schemes: semantics to

psychogeography⁽¹⁵⁾, thus translating the social and

cultural into machine-readable form, to the languages of

geographic (space), social (place) or, linguistic (case) terms?

All, I would say, and it is not even enough. The interesting

Should we, then, approach locative media with

neighbourhoods

or

maps,

The emphasis on linguistics is justified by the fact

Massachusetts: Harvard University Press.

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structuralist fashion.

mental

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describe

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see http://www.socialfiction.org, Russel (2002) and Tuters (2004) for similar comments in the locative media context.

(30) Walsh, in Tuters and Smite 2004. See also the 'backend information politics' of the web discussed by Rogers (2004).

(32) http://www.eventnetwork.org.uk/petegomes/ (33) For example Sonic City, www.tii.se/sonic-city/ See Galloway (2002)

(34) To question the transparency dictum in pervasive media, more finegrained visibility techniques have been developed in the creation of "seamful" interactions. See Chalmers, MacColl and Bell 2003. More

http://www.deaf04.nl/deaf04/program/events/item.sxml?uri=urn:v2:deaf04: rss:projects.rss:040929104400-ccc (**3B**) Also Coco Fusco (2004) wondered about the politics of these

(40) Latour 1967, Haraway 1958 and Rogers 2004, Sant 2004 for a discussion in the locative context.
(41) http://uo.space.frot.org?LondonFreeMap London is perhaps one of the most mapped cities in the world, especially as it comes to 'pedestrian versions'. The most famous cartographer is Phyllis Pearsall who trod the streets to produce the London A-Z atlas. Consume.net has mapped the diy wife node. Despecting weaver Urban Toractive is Placemeter while the discussion.

wifi nodes, Proboscis weaves Urban Tapestries in Bloomsbury while the London Free Map extends its streetnet from East End on.

(46) Yates (1966) traces the art's origins from ancient Greece and points out its continuity with evolving scientific methods in the 17th century. The analogy between new media and the art of memory was first applied to

the navigable spaces of virtual reality and hypermedia in early 1990's. **(47)** See Virno (2004) for discussion of commonplaces and Kwon (2002)

(50) Location-work: Gupta and Ferguson 1997, multi-sited ethnography: Marcus 1998. Suchman (2000) builds her located accountability on

Understanding the crucial relationships between people, places and things

will increase our ability as designers and policy-leaders to suggest more

open and people-centric uses of such technologies. We aim to create

compelling scenarios and experiments demonstrating the benefits of

In working towards a critical contextualisation of

locative media, it may be useful to revisit the history of

site-specific art. Miwon Kwon has pointed out how the label 'site-specific' became an uncritically accepted

signifier of a critical and democratic art practice. By

uncovering a genealogy of site-specific arts, she records

the various uses - formal, functional, political - the

concept has been put to and surveys the movement from a more sculptural site-orientation to community arts and

also of locative media practice. Moreover, the practice is

seen to be that of collaborative and participatory media.

The turn, in new media, from 'interactive' to

collaborative and participatory forms runs in parallel

with a reconfiguration of social space, where the

The focus on locations as locality, and the conjoined positioning of the artist as ethnographer, is a key element

collaboration with local groups.(20)

authoring platforms that treat people as co-creative and not just

(36) Pope 2005. Kwon (2002) makes a similar distinction between sedentary and nomadic approach to site-specific arts. For Pope's walking art projects, see http://www.ambulantscience.org/

representations, when she realised there were "more men (without (**39**) This is the critical assessment of tactical media by one of its key

(40) Latour 1987; Haraway 1998 and Rogers 2004, Sant 2004 for a

(31) http://www.blackbeltjones.com/warchalking/index2.html

(25) http://www.waag.org/realtime/ (26) http://www.biomapping.net/ (27) Deleuze 1992, see also Rose 1999.

(28) Bowker and Star 1999.

questions remain to be posed. (35) De Certeau 1984.

theorists Geert Lovink (2005).

(43) http://www.socialfiction.org/dotwalk/

(44) http://urbantapestries.net/ (45) http://murmure.ca/

for community arts examples.

Haraway's situated knowledges.

PROMISES OF PARTICIPATION

(42) Debord 1958.

(48) Haraway 1999. (49) Cf. Kwon 2002

consumers.

Giles Lane, Social Tapestries, 2004

(29) Graham 2004

for discussion.

(37)

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(12), sleubivibni to tnemegenem-fles bne tnemrewoqme rot seigolondret weakening of the 'social' in society is supported by government to communities and corporations. The are increasingly delegated from the public sector and the freedom. In the governance model, social responsibilities forms coincides with new regimes of governance' and betemotue of human agency to automated

collaborative mapping and public authoring are further social software environments, the annotation of places in economy. The work of linking and chatting performed in has already dissolved in the contemporary cultural the sharp opposition between producers and consumers and aided to become producers of their own content. But people should be liberated from being mere consumers underpins the emphasis on participatory media is that The ethos – often expressed as a morality – that communities - and in the end, for the responsibilizing of

snojinpidu sbem teamwork and brainstorming - of digital labour now messaging concepts is that of 'post-it' notes: the fetish of Perhaps fittingly, the usual metaphor in geolocated realised in collaboration with 'anybody'everybody'. communications is thus also the new quality of work, society. The 'anytime, anywhere' of mobile knowledge workers' - but is a pervasive feature of and technical labour is not exclusive to the so-called given and unwaged, enjoyed and exploited, free cultural contemporary 'social factory'. Simultaneously voluntarily อนา characterizes тьнат production lecindost examples of immaterial labour – the cultural, affective and

FOOTDOTES

System, RFID: Řadio Frequency Identification, CCTV: Closed Circuit Television systems. (**02)** IEEE Pervasive computing (D1) GIS: Geographic Information Systems, GPS: Global Positioning

http://www.computer.org/pervasive/faq.htm Thrift and French 2002.

((04) Ibid. ((16) ((16)) ((16) ((16)) ((16

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(DD) Galloway (2003) reminds us about ubicomp originator Marc Weiser's

vision to frame the research field in cultural and social terms; an

.ebnage orientation which was later more or less effectively dropped from the

(02) See, for example, Russel 1999, Tuters and Smite 2004. (08) Cf. Latour 1987.

(09) Graham 2004a. (10) [Locative] http://base.x-i.net/imain/listinfo/locative, [New-Media

Curating] http://www.jiscmail.ac.uk/lists/new-media-curating.html. In

2004, dozens of workshops on locative media were organised and the issue was foregrounded in most international media art festivals.

(11 For discussions on the dynamics of space and place, see for example terbove (1991), de Certeau (1984), Augé (1995).

(12) Lane 2004.

(13) Tuters 2004.

(14) Karlis Karlins, posting to the [Locative] list, May 10, 2004.

. Neighbourhood markup language proposal by David Rokeby. Meighbourhood markup language proposal by David Rokeby

(19) Production of neighbourhoods: see Appadurai 1996.

http://www.socialfiction.org/psychogeography/PML.html [**[15**] Dictionary of world languages

(22) Terranova 2000. (23) Virno 2004.

new media art discourse.

(20) Kwon 2002.

(12)

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language.com/languages/F/Finnish_language_noun_cases.html 2005 wal bus no languages/F/Finnish_language_noun_cases.html 2007 main and another second and an

to military industry, while it also showed some generational differences in

Medosch, Karlis Karlins and Drew Hemment, among others. The discussion mostly revolved around locative media's unproblematic relation

(24) Ito (2005) summarizes the current version of emergent democracy,

See Rose (1999) for a discussion on government through community.

(18) Fusco 2004. Discussants on the locative list in December 2004 and Shorayy 2005 included Pall Thayer, Brian Holmes, Saul Albert, Armin

describe hybrid economies of space, time and location, negotiated across sites of the material, the social and the technological.

For Paolo Virno, immaterial labour is best exemplified as a servile labour, a work-without-end-product where communication and cooperation are the main productive forces.(23) This is exactly the situation in participatory media, where artists increasingly operate as service providers: their work becomes that of building platforms for user participation and collaboration, and of maintaining and moderating communicative situations. The continuous logic of collaborative value production also introduces challenging questions of accountability for the artist. If Kwon shows how communities are not only invented, but also exploited for the purposes of artistic career building, the creation of 'user' content in public authoring projects introduces new dilemmas of ownership. Should the virtuosity and 'linguistic performances' (Virno) by users be considered as intellectual properties, gifts to the artist-provider, or voluntary services to 'community'?

There are several approaches to these questions, which entail different theories of values and politics of collaboration and different models for public organisation. A 'street' version of the internet, locative media often subscribes to the discourse of early visionaries of the net and their contemporary legacy, the weblog theorists. Here the promise is of a participatory, open and democratic media space, a space of creativity and freedom of expression. Once again, allegories for networked, collective intelligence and its alleged emergent result - an augmented, better version of participatory democracy - are fetched from the world of evolution. In a conjunction of biological and

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emergent organisation and pheromone trails. colonies, which display collective intelligence through 'creative' commons. There is a deep fascination with ant explain link economies, and microlicences to enclose a metaphors are a selfish theory of action, power laws' to movements and flash mobs. Attached to these animals is compared to self-organising political technological determinism, the flocking behaviour of

Some examples of such multi-sited practice can be between users, producers and heterogenous contexts. accountability, which stresses the careful negotiation inagining of technology production in terms of located perspectives have also been applied to a feminist repolitical links with other locations. These situated, partial cultural location, and creates epistemological and that puts attention on the practitioners' social and ethnographer's practice is multi-sited, a 'location-work' view, sites are not primarily spatially determined, the discipline's foundational concepts of field and site. In this studied communities, which goes hand in hand with the spatial practices, especially of the authority towards themselves have for some time problematized their Meanwhile, anthropologists and ethnographers

everyday life. In their minor and partial ways, they also bring in the mundane aspects and the wider contexts of narrative and photography, these projects manage to Union. By employing simple documentary means of changing networks of food production in the European milk farms to the cheese gourmand, but also the what is traced is not only the gps paths leading from the of dairy production from rural Latvia to Netherlands: Esther Polak's and leva Auzina's Milkes follows the routes private geographies in colloaboration with distant actors. families' spatial practices and explore ways to reimagine projects bring to view the rhythms and repetitions of temporally arranged sequences of mobile images, her immobilities of families with small children. Through Imaginary journeysen, Heidi Tikka exposes the relative found in the locative arts as well. In Situations and

13 t

As already noted, a key feature of 'ubicomp' space is that its workings are largely invisible. The conditions of experience are being subtly changed from 'below' – through algorithmic instructions, program runs, database searches – and constrained by the immaterial spatialities of bandwidth and frequency. It is therefore understandable that *making things visible* is a desire shared by a variety of agents who seek to control, describe, develop or resist the goings-on in this new space.

Curiously, but perhaps not coincidentally, many of the locative art projects, especially those using GPS tracing, also bring to mind the patterns of ant paths. Esther Polak's *Amsterdam Realtime* shows movement patterns of gps-deviced people moving about in the city, and Christian Nold's *Biomapping* adds an 'affective' dimension by visualizing galvanic skin responses along the path. Both projects however aim to encourage the users' reflexivity towards their relationship with urban space, by recording and exposing its patterns of use.

Pete Gomes, [Locative] list, May 14, 2004.

I globally positioned the shadow of a cherry tree in blossom [N 56 56 648/E 024 06 646], chalking the coordinates on the floor inside the tree shadow, and writing the time from my GPS clock beside it. Then I wrote a haiku poem about it.

THE USES OF VISIBILITY

spaces to maps, places to dots and sociality to links. The locative 'cartographers' shun away from the dirt and materiality of everyday life and prefer a resistance-at-adistance. If there is a certain degree of romanticism in these gestures of cartographic and psychogeographic subversion, the same can be said about the locative 'ethnographers', whose engagement with and empowerment of local communities run the risk of

becoming functional reforms for governance-throughcommunity or nostalgic evocations of authenticity.

We can also already decipher new fetishisms forming around the production and consumption of place, and locative media participates in their production. Fetishes are made of immaterial social and spatial processes when their tropes – eg. links and maps – are taken literally, for the thing itself. Donna Haraway talks about genetic maps as "ways of enclosing the commons of the body of corporealizing - in specific ways, which, among other things, often write commodity fetishism into the program of biology." Could we, in a similar vein, interrogate the 'localizing' effects of current locative practices which, as Haraway's gene maps, seem to defend "the subject from the too-scary sight of the relentless material-semiotic articulations of [...] reality"?(48) Scanning through the emerging canon of 'locativity', it is disturbing to see how the very context (awareness of which is often claimed as key element of the practice) is bracketed out in the reductive move from spaces to maps, places to dots and sociality to links. The locative 'cartographers' shun away from the dirt and materiality of everyday life and prefer a resistance-at-adistance.

before, takes place through translation, formalisation and mapping.

If surveillance classically was about the visibility of disciplined objects to the panoptic gaze, through pervasive technologies such as GPS, RFID, CCTV and algorithms for face, gesture and movement recognition, it has extended beyond the panoptic spaces of enclosure and become vectoral. This is the society of control described by Deleuze, a system of variable controls which act to modulate behaviours, like a sieve whose mesh transmutes from point to point. Through the logic of code, "individuals become 'dividuals' and masses, samples, data, markets or 'banks'"

📖 stremely valuable for 'us all data subjects' free information infrastructures and open GIS databases space. This is why the work of activist developers to acts towards closures and commodification of the public pervasive techniques of social sorting and increasingly dimension to this archive of behaviours, which enables gniziletot a cobe szitzitete and statistics adds a totalizing and reach. The coming together of geospatial data with things visible and possible, keeping others out of sight inclusion, performing audits which again render some hidden background they in turn operate on exlusion and brought back for assessment of adjustment. This background of practices, from where they are not easily turn invisible and disappear into the uncontestable software, standards, archives and infrastructures, they has very material consequences. When embedded in work' of categories, classifications and data structures question of information infrastructures. The 'invisible important perspective to the issue of visibility: the This technical administration of difference adds an

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... they will be confronted with an image of their week, as well as the paths of the other participants. We register their reactions, ask questions, focus on landscape, politics, on their experiences and attitudes towards their surroundings, their perceptions of the potentials of the landscape, economic circumstances, myths about space, local songs, family relationships to the land, etc.

leva Auzina, [Locative] list, July 4, 2003.

patent regimes. The colonisation of new spaces, as traditions and genes, have already been brought under After all, also other immaterial phenomena, such as oral time, or the trajectory we perform through movement? we will still have rights to our own location in space and allocation and ownership, we now have to ask whether Besides the already raised questions of spectrum turn in this 'dividualised' landscape of push and pull. wen a steg 'snommoo' of the vermise of the 'commons' gets a new target markets figure strongly in the industrial fleet management, pervasive games, and user-profiled telecommunications. Services for routing and tracking, services have been cast as a key value-added in mobile auctions at the turn of the 21st century, location based contemporary capitalism, and since the great spectrum 'authentic' experiences are a prime source of value for Urban locations, with their 'creative' demographics and

In addition to these functional and expressive concerns we of course have the counter-practices employed by most media art, which in the traditions of *détournement*, appropriation and irony expose representational practices by change of context, rearrangement of elements or literalisation of function. In fact the many uses of visibility – functional, surveillant, descriptive, resistive – in the pervasive media space suggest the need to establish an interdisciplinary research field, *visibility studies*, to complement and

visible relates to the immateriality of the phenomena the 'beacons' that beam urls, the geolocated messages suspended in 'mid-air', the coverage of wifi nodes. The clear visibility of elements to be acted upon, and the provision of immediate feedback are cornerstones of usability design, but how to make these happen offscreen, on the move? An example of wireless usability design is Matt Jones' Warchalking "", a sign language to mark wifi hotspots on the street which became a shortlived urban tech trend in 2002. Similarly, Pete Gomes' Location, location, location(32) aims at creating future signage for the invisible via a conceptual architecture on the street. The use of chalk to mark streets is a low-tech version of a general visibility method, that of the overlay, where co-existing physical and virtual worlds are represented in relations of transparency, background and foreground. Mixed or augmented reality applications use data visualisation techniques for layered representation, while the sonification of locations may produce embodied sonic experiences in urban settings.[33)

From the design perspective, the urge to make things

The participatory annotation of urban space fits well into Certeau's description of tactical practice - for what else is annotation than a writing in the margins, a commentary which is never taking the space over in its entirety? Thus also: "It has at its disposal no base where it can capitalize on its advantages, prepare its expansions" (de Certeau). The room offered for maneuver is not an empty container or wax tablet, but a space already configured by architecture, urban planning and the telecommunication industry. Users operate within parameters created by these infrastructures - and those of the platform-providing artists. In this context it may be necessary to question also whether this work advances the specificity of sites, or the proliferation of commonplaces? The "authenticity" that artists help communities to express is easily infused into programmes of urban regeneration and branding, as has been the case in previous local memory projects.

resemblance with the ancient art of memory, where places (loci) such as streets or squares were memorized and used in the manner of wax tablet, by orators who would place mental images on them in order to bring the speech topics back to mind during delivery.⁴⁴⁹ Whereas the classical mnemonics was used in one-to-many situations – deliveries of political speeches or poems by orators – its locative many-to-many version promises an archive of lived experience, a community memory, or even a new type of 'commons'.

> revitalise the perceptually oriented agendas of visualization and usability research. In this field of study, also some critical questions of the effects and effectivities of visibility techniques could be posed.



cyclists and skateboarders, projecting the tactical on the strategic.

Gibson's slogan of street-level innovation. reads the project statement in a cyborg-ironic reversal of "Technology will find uses for the street on its own" repeatedly produces more contusion than certainty. produce a walk without navigational triction, but 2 nd street right / 2 nd street left") should be able to city. The algorithm (in its simplest form: "1 st street left / executable algorithm for walking in, or stumbling on, the takes 'method' to its extreme by presenting a human-Walkering' expeditions. Thus Socialification's walkee practitioners have mostly used them as inspiration for programme urban experience⁽¹³⁾ but locative method of operating in the city and a political psychogeographic drifts are not random, they have a and the dérive, enters the game. Debord stressed that modes. This is also where the inspiration of situationism, seems to run parallel with the sedentary and ambulant determinism and chance, between locating and stumbling A turther dynamic, an interplay between

Another locative genre combines the cartographic/sedentary and ambulant approaches in the cartographic/sedentary and ambulant approaches in the restion of location-based public repositories. Urban Japestries and murmun annotation, invite users to public not and nurmun anthoring and urban annotation, invite users to public users and stories in urban space, and audiences to follow the trails and threads signposted by these messages. In many ways, these projects are a further development of rhetorics, the art of public speaking and writing. They have a strong art of public speaking and writing. They have a strong art of public speaking and writing.