INDEX
by S. Jane Henderson
Numbers in italics indicate tables or photographs.

A
ABCs of TOD zoning, 58–9, 69
Ackerman, Frederick, 238
active and walkable streets, 70–4
actors in TOD, 42–54
adaptive reuse, see Mockingbird Station
Addison Circle (Dallas), 50, 62, 69, 77, 160, 164–70, 165, 169
affordable housing (see also housing; multifamily housing)
   Barrio Logan’s Mercado, 219
   financing, 50, 96, 102–4
   importance of, xiv, 23, 26, 190
   Lindbergh City Center, 183–4, 190
   Ohlone-Chynoweth Station, 194–5, 201, 204, 207–8
   Rosslyn-Ballston Corridor, 135, 136, 151
air rights
   development, 91
   lease, 103
   sale, 99
Alliance for Transportation Research Institute, 4
amenity retail, see retail projects
Annual Report on New Starts (FTA), 12–3
Arlington County case study, see Rosslyn-Ballston Corridor
Arlington County mode share, 30
Atlanta case study, see Lindbergh City Center
Atlanta Regional Commission (ARC), 177, 187
Autler, Gerald, 10
auto-friendly TOD, 160, 171
auto-oriented transit, 5–6

B
barriers to TOD, see challenges facing TOD
Barrio Logan’s Mercado (San Diego), 47, 50, 53, 212–8, 218
BellSouth, 176, 180–1, 187, 189, 190, 191
Belzer, Dena, 10
benchmarks, performance, 22, 39
benefits of TOD, 3, 7, 8, 9, 115, 245
   (see also value capture)
benefits of transit, 2, 6
Bernick, Michael, 8
Bertolini, Luca, 32
bicycle access, 25, 139–40
block size, 72
bonds, 89, 109
brownfield redevelopment, 107
building scale and design, 59, 71–2, 74
“bulls-eye” development concept, 133, 135, 145
business plan, 88, 97
bus transit, 117, 119, 139, 214
bus versus rail debate, 36–7
busways, 33
buying power, low-income neighborhood, 104, 219

C
Calhorne, Peter
   TOD typology, 33
   urban design principles of, 7, 8, 213, 214
car ownership costs, 23, 237
car sharing, 29, 47
case studies, planning and regulation, 61–2
Center for Neighborhood Technology (CNT), 4, 110
Center for Transit-Oriented Development, xv, 4, 239
Central Park Market at Del Mar Station (Pasadena), 61, 63–4, 67–8, 75, 77, 78
Cervero, Robert, 8, 117
challenges facing TOD
   economic, xiv, 4
   financing, 84, 172, 214, 244
   institutional, xiv, 4, 69, 78–80, 126–7
   logistical, 43–54
   overview, xv, 10
choice as goal of TOD, 25–6
Cities and Rails (Bertolini and Spitz), 32
Clarendon Market, 148
Clean Air Act (CAA), 177–8, 186
community involvement, see public involvement
   community members as actors in TOD, 42, 51–4
   commuter town as TOD type, 36, 38
   condominiumization, 99
Congress for New Urbanism, 4
connectivity, lack of, 164, 187
Cook County mode share, 30
Courthouse Station, 149
The Crossings (Mountain View), 62, 64, 66, 77
"customized" TOD projects, 63–4, 69

D
Dallas Area Rapid Transit (DART), 43, 156
Dallas case studies, see Addison Circle; Mockingbird Station
definition of TOD, 4, 21–32, 39
demographic changes, 3, 10–12, 234
density (see also building scale and design)
Barrio Logan's Mercado, 222, 227
excessive, 190
housing, defined, 37
and location efficiency, 24
Ohlone-Chynoweth Station, 200, 201
opportunities created by, 10
Rosslyn-Ballston Corridor, 147, 151
and transit use, 117, 151
and vehicle miles traveled, 233
design guidelines
Addison Circle, 166
Barrio Logan's Mercado, 222
importance of, 7, 170, 213, 226–8
multimodal streets, 120
Ohlone-Chynoweth Station, 199–200
pedestrian, 139–40
street, 26, 58, 70–74, 126–7
TOD neighborhoods, 120
traffic and parking, 118–23
design review process, see planning framework
developers (see also nonprofit developers)
as actors in TOD, 42, 49–51, 97
and affordable housing, 102
goals in TOD, 44
incentives for, 101, 102, 170
as investors, 88, 94
Rosslyn-Ballston Corridor, 134
selecting, 87, 172–3, 226
development
cost of greenfield, 235
development (continued)
diversity, 31
flexibility, 32
intensity, 135
joint approach, 6–7
new approach, 20
opportunities spectrum, xiii
predictable environment for, 47, 132, 150, 159, 168
transit-adjacent, 4, 196
transit-related, 6–8
development framework, see planning framework
development-oriented transit, 5
development process, see planning framework
Downs, Anthony, 14

E
economic diversity, 151
economic integration, xiv
economic value, see value capture
economy of scope, 240–1
employers, value capture for, 28
endowment funds, 95
Enterprise Social Investment Corporation, 220, 225
equity investors, see investors
equity participation in TOD, 92–3
equity real estate funds, 95
expenditure density, 238

F
federal government
as actor in TOD, 44
funding for place making, 102
goals in TOD, 44
HUD Loan Guarantee Program, 219
Federal Transit Administration (FTA), 12–13
fenestration, 72
financial return, see value capture
financing
bonds, 89, 109
challenges, 84, 106, 214
components of TOD, 96, 101–9
gaps, 103, 110, 166
mezzanine debt, 97
process, 85–6
products, 94–96
public sector role in, 84, 110
structure, 93–101, 220
financing (continued)
  tax increment, 101, 109, 165, 217
  fixed guideway transit, 12
  flexible design, 50, 97, 98, 99
  foundations, 88, 105
  functional characteristics of TOD, 21–2, 39
  funding gaps, 103, 110, 166

G
gentrification, xiv
goals of TOD, 20–1, 22–32, 44–45, 68
ground leases, 92, 94, 105, 109–10
groundwork for TOD, 86–9
  growth strategies, xiii, 14, 66, 114, 213, 239
guidelines, see design guidelines

H
  headways, 138–9
  highway versus transit debate, 2
  historical context for TOD, 5–9, 42, 238–9
  historic preservation, 137–8, 151
  historic preservation tax credits, 107
  horizontal mixed use, 96, 97
  households
    expenditures, 236–8
    size changes, 234, 236
    value capture for, 28–9
  housing (see also affordable housing)
    costs of, xiv
    density and TOD goals, 25
    home size, 234
    market-rate, 161, 196, 206, 208
    options in, 26, 102
    shift in preferences, 12
  Hughes, Ken, 161–2, 164, 171–3

I
  implementation strategies, xv, 226
  incentives
    for affordable housing, 103
    for developers, 101, 102, 170
    for mixed use, 105, 150
    for reuse, 107
    in zoning and permitting, 87
  infill development, 2, 213
  integration of TOD, 31, 186–87, 190
  integration of transit, 59, 75–6
  internal trip capture, 116, 123–4
  investors
    cultivating, 94
    developers as, 88, 94
    education of, 171
    foundations as, 88
    value capture for, 92

J
  Jacobs, Jane, 217
  joint development approach, 6–7, 196, 198–200
  Journey to Work Survey (2000 US Census), 30, 143

L
  land banking, xiv, 104
  land use
    for active, walkable streets, 70
    diversity in, 123–4
    influence of transit on, 6
    planning, 66
    regulations, 102
    and TOD effectiveness, 125
    and vehicle miles traveled, 233
  learning processes, 241
  lenders (see also nonprofit lenders)
    as actors in TOD, 49–51
    concerns of, 99
    goals in TOD, 44
    and parking ratios, 108, 127
    and retail projects, 104–5
    level of service standards, traffic flow, 120–1, 126–7
  Lindbergh City Center (Atlanta), 51, 52, 62, 64, 77, 176–91
  "livability" and TOD goals, 22, 233–4
  local governments (see also public sector investment)
    as actors in TOD, 42, 43, 47–9, 54
    funding for place making, 101
    goals in TOD, 44
    planning framework, 170–1
    redevelopment process, 134, 135
    role in TOD, 89, 104–5, 108, 157
    value capture for, 28, 89

location efficiency
  and auto travel, 116–7
  as goal of TOD, 23–5
  and household expenditures, 236–8
  and land use, 233, 234
location efficiency (continued)
measuring, 244
traffic and parking, 115
and transit density, 26
Location Efficient Mortgage (LEM), 29
low-income housing tax credits, 200, 219

M
major credit tenants, 104, 219, 220, 224, 225
market analysis, 48, 88, 239
Market Commons at Clarendon (Arlington), 62, 64, 77
market demand, 2, 3, 9–10, 147, 148, 170, 243
market-rate development, 161, 196, 206, 208
market scale, 12–13
Metropolitan Area Advisory Committee (MAAC), 216
Metropolitan Atlanta Regional Transit Authority (MARTA), 176–80, 188
Metropolitan Place (Renton), 62, 66, 68, 77
Metropolitan Transit Development Board (MTDB), 213, 222, 223
Metrorail (Arlington County), 133, 143
mezzanine debt financing, 97, 225
mixed-use buildings, 97–100
mixed-use developments
cross-subsidization, 98–9
factor in success, 150
financing, 96–97, 105, 106, 244
internal trip capture, 123–4
market demand, 147
Rosslyn-Ballston Corridor, 132
traffic and parking data, 126
and transit use, 150
and travel demand, 116
Mockingbird Station (Dallas), 156–73, 160–4, 161, 162, 163
mode debate, 36–7
model community, new, 243
mode share, 30, 123
multifamily housing, 138, 171–2, 194 (see also affordable housing; housing)

N
neighborhoods
and choice, 26
guidelines for, 120
shift in preferences, 12
neighborhood transit zone as TOD type, 36
neighbors
as actors in TOD, 42, 51–4
goals in TOD, 44
network economy, 240–1
new-growth areas, xiv
New Markets Tax Credits, 100, 106, 209–10, 220, 225–6
new transit starts, 12, 13, 92, 232–3
New Urbanism, 181
The Next American Metropolis (Calthorpe), 7, 14
node versus place, see place and node balance
nonprofit developers, 88–9, 99, 102, 103, 105, 194
nonprofit lenders, 106

O
objectives of TOD, see goals of TOD
Ohlone-Chynoweth Commons, 202–5
Ohlone-Chynoweth Station (San Jose), 47, 50, 51–2, 61, 64, 77, 194–210, 203
Ohlone Court Apartments, 200–2
One Pearl Place (San Jose), 206
Orenco Station (Hillsboro), 62, 66, 77
"Our Stake in Congestion" (Ackerman), 238

P
park-and-ride lots, 206, 207, 208
parking (see also traffic and parking)
alternatives to, 47
comprehensive strategy for, 209
excessive, 124, 190, 222
financing, 108
Lindbergh City Center, 184–85
marginal cost of, 237
in place and node balance, 45–6
placement of, 73, 162
politics of, 181–3
ratios, 108–9, 127, 201
regulations, 142
parking (continued)
revised standards for, 50
shared, 108–9, 237
strategies, 109, 121–3
structured, 108–9, 205
underground, 160–1
partnerships
affordable housing, 50
profit and nonprofit, 209
public, 54, 110
public and private, 49
Rosslyn-Ballston Corridor, 135
transit agencies and nonprofits, 50
pedestrian environments
and location efficiency, 24, 25
"pedestrian friendly" defined, 70
Rosslyn-Ballston Corridor, 139–40, 144, 149, 151
and TOD effectiveness, 124
and transit share, 37, 38
value of, 30–2, 186, 190, 241
pension funds, 95
performance-based definition, 22–33
performance measures, 22, 39, 123–4, 126, 244–5
phased development, xiv, 49, 50, 93, 99
place and node balance
financing components, 85, 101
importance of, 5, 32, 45–6
Ohlone-Chynoweth Station, 195, 205, 206–7, 207–8
place making
cost of, 93
as goal of TOD, 22, 30–2
investment in, 101
and parking garages, 108–9
second generation challenges for, 78–80
traffic and parking professionals
and, 128
place-node tension, see place and node balance
planned unit developments (PUD), 64–5
planning and policy approach, 59–60, 64–9
planning and regulation
case studies, 60–2
planning framework
as factor in success, 59, 150
public sector investment (continued)
Rosslyn-Ballston Corridor, 135–6, 137
staff role in, 90, 134
Public Transportation and Land Use Policy (Zupan and Pushkarev), 24
Pushkarev, Boris, 24

R
rail transit
as development catalyst, 133, 150
rail versus bus debate, 36–7
traffic and parking generation, 118
underutilized lines, xiv
real estate
development process, 85–6
investment trusts (REITs), 94
TOD as product, 4
recommendations
regulatory provisions, 69–78
traffic and parking, 127–29
Reconnecting America, 4
redevelopment
Barrio Logan’s Mercado, 216
brownfield sites, xiv
catalysts for, 150
and gentrification, 221
incentives for, 107
rail investment as catalyst for, 150
Rosslyn-Ballston Corridor, 132–51
regional equity funds, 95
regional governments
role in TOD, 54, 66, 67, 68, 191, 223
regional implications of TOD, 47, 68, 115, 125, 151, 209
regulatory framework, see planning framework
residents of TOD
value capture for, 29
retail projects (continued)
in mixed-use developments, 98, 105, 151, 172, 244
riders, see transit users
ridership, see transit share
Rosslyn-Ballston Corridor (Arlington County), 30, 52, 66, 67, 132–51, 145, 148, 149

S
safety concerns, 205, 206
San Diego case study, see Barrio Logan’s Mercado
San Francisco mode share, 30
San Jose case study, see Ohlone-Chynoweth Station
Santa Clara Valley Transportation Authority (VTA), 194–6, 198–9
secondary markets, 100, 220
second generation TOD, 78–80
sector plans, 146
segmentation for financing, 96, 99
Shaw, Robert, 159, 164–8, 171–3
sidewalks, 71
16 Market Place (Denver), 61, 65, 67, 68, 77
Smart Commute Mortgage, 29
smart growth, 2, 66, 95, 102, 103, 127
Spit, Tejo, 32
"standardized" projects, 63–4, 65–6
standards, see design guidelines
state facilities funds, 106
state governments, 54, 101, 191
State/Thomas (Dallas), 159, 164–65
station area plans, 48–9
The Steelyards (Boulder), 61, 65, 68, 77
Strategic Economics, 4
street and highway access, 139
streetcar suburbs, 5
Streetcar Suburbs (Warner), 5
suburban neighborhood as TOD type, 36, 38
suburban town center as TOD type, 35, 38
success in TOD
factors, 22, 26, 59, 68, 240
factors impeding, 124–5
functional agenda for, 243–4
and location efficiency, 24
measures of, 4, 147, 148
tax credits
historical, 94
historic preservation, 107
low-income housing, 200, 219
New Markets, 100, 106, 209–10, 220, 225–6
tax increment financing, 101, 109, 165, 217
The Crossings (Mountain View), 71
The Death and Life of Great
American Cities (Jacobs), 217
timeline for TOD, 66, 69, 133, 146, 168
time tranches, 95
traffic and parking, 115–8 (see also parking)
tranches, time, 95
transit-adjacent development, 4, 196
transit agencies
as actors in TOD, 42, 43, 46–7
and affordable housing, 50, 103
and equity participation, 92–3
funding for place-making, 101
goals in TOD, 44
as leader in TOD, 67–68
Lindbergh City Center, 184–5
and retail projects, 105
roles in TOD, 88, 89, 91–92, 171
sale of surplus land, 91, 92, 179–80
subsidy for community uses, 106
value capture, 28, 90–3, 93
Transit Metropolis (Cervero), 8
Transit-Oriented Development (TOD) experiment, xiii
transit-related development, 6–8
transit riders, see transit users
transit service
integration in TOD, 59
and location efficiency, 24, 236–7
principles of, 36–7
Rosslyn-Ballston Corridor, 138–9
and TOD effectiveness, 124–5
transit share, 30, 37, 132, 138, 151
transit stations
place and node balance, 32
role in regional network, 32, 47, 121
siting of, 138, 172
transit-supportive uses, 116–7
transit systems, 5–6, 32, 202
transit use, see transit share
transit users, 42, 44, 208
transit versus highway debate, 2
Transit Villages in the Twenty-first
Century (Bernick and Cervero), 8
transportation analysis, 128
transportation costs, xiv, 26, 29, 232, 233, 237
transportation demand
management, 118–21, 121, 140–2
transportation planning prototypes, 115
transportation professionals, 125–7
trends, 2–3, 7, 10–12, 20
typology for TOD, 33–8, 38
U
urban design, 27, 31–2, 151
“The Urban Design Compendium,” 31
urban downtown as TOD type, 34, 38
urban neighborhood as TOD type, 34–5, 38
urban neighborhood transit zone as TOD type, 38
V
value capture (see also benefits of TOD)
as goal of TOD, 6, 26–31, 89–93
for local governments, 89, 90
for potential investors, 92
for public investors, 85, 89–90, 110
and public involvement, 52–3
real estate, 238, 244
Rosslyn-Ballston Corridor, 148, 238
and social capital, 242
for transit agencies, 90–3
value gap, 93
The Value of Good Urban Design
(Bartlett School of Planning), 27
vehicle miles traveled, 25, 233–4
vertical mixed use, 96
vision for TOD, xv, 20–1
VTA, see Santa Clara Valley Transportation Authority
walkable streets, 58, 70–4
walk share, 30
Warner, Sam Bass, 5
Washington Metropolitan Area Transit Agency (WMATA), 133, 148
Willow Springs Village Center, 77
windows, 72

zoning
  Barrio Logan's Mercado, 222
  customized, 64–5
  framework, 58–80
  and place making, 79
  practices in TOD, 59–60
  special districts, 135
  and TOD effectiveness, 87, 125
  for transit integration, 64–5
  variances and rezoning, 77
Zupan, Jeffrey, 24